

Catalogue

of

Brown University



1903 - 1904

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CATALOGUE

OF

Brown University



ONE HUNDRED AND FORTIETH YEAR

1903-1904

PROVIDENCE, R. I.
REMINGTON PRINTING COMPANY
1903

Correspondence

Correspondence addressed simply to BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND, may be expected to reach the proper department, but, in order to avoid delay and possible confusion, correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Corporation, and all correspondence bearing upon the general interests of the University, should be addressed to the PRESIDENT. Inquiries concerning scholarships, undergraduate courses, and other matters pertaining to the students should be addressed to the DEAN. Requests for the Annual Catalogue and other publications, and inquiries relating to conditions of entrance, whether by examination or certificate, and to expenses, should be addressed to the REGISTRAR. Inquiries in regard to graduate courses should be addressed to the DEAN OF THE GRADUATE DEPARTMENT. Inquiries relating to the Women's College should be addressed to the DEAN OF THE WOMEN'S COLLEGE. Inquiries or information concerning alumni should be sent to the KEEPER OF GRADUATE RECORDS.

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Calendar 1903-1904

1903	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1904	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1904	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sept.	6	7	8	9	10	11	12	Jan.	3	4	5	6	7	8	9	May	8	9	10	11	12	13	14
	13	14	15	16	17	18	19		10	11	12	13	14	15	16		15	16	17	18	19	20	21
	20	21	22	23	24	25	26		17	18	19	20	21	22	23		22	23	24	25	26	27	28
Oct.	27	28	29	30	..	..	..	Feb.	24	25	26	27	28	29	30	June	29	30	31	..	..	..	..
	4	5	6	7	8	9	10		31	..	..	..	..	..	..		5	6	7	8	9	10	11
	11	12	13	14	15	16	17		7	8	9	10	11	12	13		12	13	14	15	16	17	18
Nov.	18	19	20	21	22	23	24	Mar.	14	15	16	17	18	19	20	Sept.	19	20	21	22	23	24	25
	25	26	27	28	29	30	31		21	22	23	24	25	26	27		26	27	28	29	30	..	..
	1	2	3	4	5	6	7		28	29	..	1	2	3	4		5	..	4	5	6	7	8	9
Dec.	8	9	10	11	12	13	14	Apr.	6	7	8	9	10	11	12	Oct.	11	12	13	14	15	16	17
	15	16	17	18	19	20	21		13	14	15	16	17	18	19		18	19	20	21	22	23	24
	22	23	24	25	26	27	28		20	21	22	23	24	25	26		25	26	27	28	29	30	..
	29	30	..	..	..	..	..		27	28	29	30	31	..	..		2	3	4	5	6	7	8
	6	7	8	9	10	11	12		3	4	5	6	7	8	9		9	10	11	12	13	14	15
	13	14	15	16	17	18	19		10	11	12	13	14	15	16		16	17	18	19	20	21	22
	20	21	22	23	24	25	26		17	18	19	20	21	22	23		23	24	25	26	27	28	29
	27	28	29	30	31	..	..		24	25	26	27	28	29	30		30	31	..	..	..	..	..

Vacations and holidays are indicated by lighter type.

University Calendar 1903-1904

1903.

September 2. Wednesday. Annual Meeting of the Corporation (first Wednesday in September).

September 11, 12, 14, 15. Friday, Saturday, Monday and Tuesday.
Examinations for admission to the Freshman Class
and to Advanced Standing.

September 15. Tuesday. Last day for registration of Undergraduate Students.

September 16. Wednesday. ACADEMIC YEAR BEGINS: 8:40 A. M.

September 16. Wednesday. Last day for registration of Resident Graduate Students.

September 26. Saturday. Examination in Greek for the President's Premiums.

September 30. Wednesday. Examinations in Latin for the President's Premiums.

October 3. Saturday. Examination in Mathematics for the Hartshorn Premiums.

October 7. Wednesday. Examination in French for the President's Premiums.

November 26-28. Thursday, Friday and Saturday.

THANKSGIVING RECESS.

December 17-23. Thursday to Wednesday. Term Examinations.

December 24, 1903, to January 5, 1904. Thursday to Tuesday inclusive.

CHRISTMAS RECESS.

1904.

- January 5.* *Tuesday.* Last day for registration of Undergraduate Students.
- January 6.* *Wednesday.* SECOND TERM BEGINS: 8.40 A. M.
- February 22.* *Monday.* Washington's Birthday. No University exercises.
- March 12-18.* *Saturday to Friday.* Term Examinations.
- March 19-29.* *Saturday to Tuesday inclusive.*

SPRING RECESS.

- March 29.* *Tuesday.* Last day for registration of Undergraduate Students.
- March 30.* *Wednesday.* THIRD TERM BEGINS: 8.40 A. M.
- March 31.* *Thursday.* Last day for receiving theses of candidates for the Doctorate.
- May 30.* *Monday.* Memorial Day. No University exercises.
- May 31.* *Tuesday.* Last day for examinations for Advanced Degrees.
- June 2-8.* *Thursday to Wednesday.* Term Examinations.
- June 12.* *Sunday.* Baccalaureate Sermon: First Baptist Meeting House, 4.30 P. M.
- June 13.* *Monday.* Class Day.
- June 14.* *Tuesday.* Annual Meeting of the Phi Beta Kappa Society: 5 University Hall, 9.30 A. M.
- June 14.* *Tuesday.* Annual Meeting of the Alumni, Manning Hall.
- June 14.* *Tuesday.* Ivy Day: Pembroke Hall.

June 15. *Wednesday.* ONE HUNDRED AND THIRTY-SIXTH
ANNUAL COMMENCEMENT (third Wednesday in June):
First Baptist Meeting House, 10.00 A. M.

June 16. *Thursday.* Meeting of the Corporation.

June 16-20. *Thursday, Friday, Saturday and Monday.* Examinations for Admission to the Freshman Class and to Advanced Standing.

SUMMER VACATION.

September 7. *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).

September 16-20. *Friday, Saturday, Monday and Tuesday.* Examinations for admission to the Freshman Class and to Advanced Standing.

September 20. *Tuesday.* Last day for registration of Undergraduate Students.

September 21. *Wednesday.* ACADEMIC YEAR BEGINS: 8.40 A. M.

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†On leave of absence during the academic year 1903-04.

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HENRY DEWEES CADY	Warren
<i>Assistant in Tool Work</i>	
JOHN EDWARDS	210 Doyle Avenue
<i>Assistant in the Ladd Observatory</i>	

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7 Administration Building: 11.30 A. M. to 12.30 P. M. Tuesday,
Wednesday, Thursday, Friday.*Dean*

ALEXANDER MEIKLEJOHN, PH. D.

5 Administration Building: 12.15 to 1.15 P. M.

Registrar

FREDERICK TAFT GUILD, A. M.

4 Administration Building: 8.30 A. M. to 1 P. M., 2.30 to 4 P. M.

Dean of the Women's College

ANNIE CROSBY EMERY, Ph. D.

Pembroke Hall, Meeting Street: 10 to 11 A. M.

Librarian

HARRY LYMAN KOOPMAN, A. M.

Library: 9 to 10 A. M., 3 to 4 P. M.

Dean of the Graduate Department

CARL BARUS, PH. D.

5 Wilson Hall: 12 M. to 1 P. M.

Committee on Absences

HENRY THATCHER FOWLER, Ph. D., Chairman.

9 Administration Building: 1.05 to 1.45 P. M. Tuesday and Thursday.

Teachers' Bureau

WALTER BALLOU JACOBS, A. M., Secretary.

10 Administration Building: 10 A. M. Monday, Tuesday, Thursday,
4 P. M. Friday, 12 M. Saturday.*Steward*

ARCHIBALD GRANT DELANEY

1 University Hall: 12 M. to 1 P. M.

Admission to the University

REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS

The courses of study in college leading to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science in either Civil, Mechanical or Electrical Engineering demand proficiency in certain preparatory studies prescribed for each course. The full list of studies, with a detailed statement of the requirement in each, is given on pages 26-33.

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 26-33 giving details of the requirements.

In Group I all subjects must be presented.

In Group II subjects aggregating 6 points, including at least 3 points in ancient language and at least 1 point in modern language, must be presented.

In Group III one subject may be presented, but students who present no subject in Group III must present subjects aggregating 7 points in Group II.

GROUP I.

English.....	See I,	page 26
Algebra.....	" II,	" 27
Geometry.....	" III,	" 27, 28
Ancient History.....	" XIV, 1,	" 31

GROUP II.

Ancient Language

Latin (elementary and advanced) (3)	See VI, VII,	page 28
Greek (elementary) (2).....	" VIII,	" 29
Greek (advanced) (1).....	" IX,	" 29

Modern Language

French (elementary) (1).....	See X,	page 29
French (advanced) (1).....	" XI,	" 30
German (elementary) (1).....	" XII,	" 30
German (advanced) (1).....	" XIII,	" 31

GROUP III.

Solid Geometry and Plane Trigonometry (1)

		See IV, V,	page 28
English and American History (1)		" XIV, 2,	" 31
Physics (1).....		" XV,	" 32
Chemistry (1).....		" XVI,	" 32

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

The subjects are arranged in three groups, the figures in parenthesis in Groups II and III indicating the value in points assigned to each subject. For the amount required, reference is made to the paragraphs on pages 26-33 giving details of the requirements.

In Group I all subjects must be presented.

In Group II two or more languages are required, aggregating from 3 to 7 points.

In Group III free selection is allowed to complete the 7 points.

GROUP I.

English.....	See I,	page 26
Algebra	" II,	" 27
Geometry	" III,	" 27, 28
Ancient History.....	" XIV, 1,	" 31
or		
English and American History.....	" XIV, 2,	" 31

GROUP II.

Latin (elementary) (2).....	See VI,	page 28
Latin (advanced) (1).....	" VII,	" 28
Greek (elementary) (2).....	" VIII,	" 29
Greek (advanced) (1).....	" IX,	" 29
French (elementary) (1).....	" X,	" 29
French (advanced) (1)	" XI,	" 30
German (elementary) (1).....	" XII,	" 30
German (advanced) (1).....	" XIII,	" 31

GROUP III.

Solid Geometry and Plane Trigonometry (1) See IV, V, page 28
History (the History not presented as a required subject) (1)

		See XIV, 1 or 2, page 31	
Physics	(1).....	" XV,	" 32
Chemistry	(1).....	" XVI,	" 32
Astronomy	(1).....	" XVII,	" 32
Physiography	(1).....	" XVIII,	" 33

REQUIREMENTS FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING OR ELECTRICAL ENGINEERING

The subjects are arranged in two groups. For the amount required, reference is made to the paragraphs on pages 26-33 giving details of the requirements.

In Group I all subjects must be presented.

In Group II two subjects must be presented.

GROUP I.

English	See I,	page 26
Algebra	" II,	" 27
Plane Geometry	" III,	" 27
Solid and Spherical Geometry	" IV,	" 28
Freehand Drawing	" XIX,	" 33

GROUP II.

French (elementary)	See X,	page 29
German (elementary)	" XII,	" 30
Chemistry	" XVI,	" 32

METHODS OF ADMISSION TO THE FRESHMAN CLASS

1. BY EXAMINATION

The examinations for admission to the Freshman class are held in Wilson Hall on the Thursday, Friday, Saturday and Monday next following Commencement in June, and also on the Thursday, Friday, Saturday and Monday next preceding the beginning of the academic year in September. Candidates may be examined in all the subjects in June or in September, or part in June and the remainder in September, but they must conform strictly to the appointed schedule as to time and place for the several examinations.

The order of the examinations in 1904 will be as follows:

THURSDAY, JUNE 16 and SEPTEMBER 15.

Algebra, Wilson Hall 27, 8 A. M. to 10 A. M.

Geometry, Wilson Hall 27, 10 A. M. to 12 M.

Elementary French, Wilson Hall 2, 1 P. M. to 3 P. M.

Advanced French, Wilson Hall 2, 4 P. M. to 6 P. M.

FRIDAY, JUNE 17 and SEPTEMBER 16

Elementary Greek, Wilson Hall 2, 8 A. M. to 10 A. M.

Astronomy, Wilson Hall 25, 8 A. M. to 10 A. M.

Advanced Greek, Wilson Hall 2, 10 A. M. to 11.30 A. M.

Physiography, Wilson Hall 25, 10 A. M. to 12 M.

Latin, Wilson Hall 25, 12.30 P. M. to 4 P. M.

English and American History, Wilson Hall 27, 4 P. M. to 6 P. M.

Freehand Drawing, Candidates will offer their plates for examination at Wilson Hall 2, at 2 P. M.

SATURDAY, JUNE 18 and SEPTEMBER 17

English, Wilson Hall 26, 8 A. M. to 10 A. M.

Chemistry, Wilson Hall 2, 11 A. M. to 1 P. M.

Solid Geometry, Wilson Hall 27, 2 P. M. to 4 P. M.

Plane Trigonometry, Wilson Hall 27, 4 P. M. to 6 P. M.

MONDAY, JUNE 20 and SEPTEMBER 19

Elementary German, Wilson Hall 2, 8 A. M. to 10 A. M.

Advanced German, Wilson Hall 2, 10 A. M. to 12 M.

Ancient History, Wilson Hall 25, 1 P. M. to 3 P. M.

Physics, Wilson Hall 1, 4 P. M. to 6 P. M.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the Registrar of the University, and sent at least four weeks before the time of the examinations.

Examinations conducted under the supervision of the College Entrance Examining Board will be accepted in place of the corresponding examinations for Brown University.

2. BY CERTIFICATE

In place of examinations, students are admitted by the certificates of the principals of those schools to which this privilege has been given. For all schools in the New England states, the list of approved schools of the New England College Entrance Certificate Board is used. Certificates will be accepted from all schools upon this list and from no others in New England. Principals of schools in New England who desire the certificate privilege for Brown University, or for any of the colleges represented on the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown St., Providence, R. I.

The Regents' certificates in the State of New York are accepted for the subjects specified. The principals of schools situated outside of New

England, who desire the certificate privilege should make application to the Dean of Brown University, and furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request. Application for the privilege of certification should be made before May 1st, in order that it may be acted upon by the close of the academic year.

Certificates are accepted for admission to the Freshman class only, but not for admission to advanced standing. If any candidate offers for admission subjects in excess of those required for the course he wishes to take in college, he may be examined in them at the appointed times above scheduled and receive credit for them as college studies.

Blank forms for certification of candidates may be obtained by the principals of schools on the accredited list from the Registrar. They should be sent to him by July 1st. When a student has attended more than one school, a letter of recommendation from the principal of the institution last attended should accompany the certificate.

MATRICULATION

At the beginning of the second term Freshmen who have no entrance conditions and who have satisfactorily completed the work of the first term are matriculated. Until matriculated, all candidates for degrees, however admitted, are regarded as on probation.

REQUIREMENTS FOR ADMISSION TO ADVANCED STANDING

Candidates for admission to advanced standing coming from institutions of collegiate rank will receive due credit for their previous work upon presentation of an official certificate of standing.

Other candidates for admission to advanced standing must satisfy the entrance requirements for admission to Brown University in the course which they propose to enter. They may present by examination any course or courses found in the curriculum of the degree for which they apply, provided they arrange for the same with the Committee on Admission to Advanced Standing at the time of entrance.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Dean of the University, and should be sent, if possible, before August 1st.

The examinations for 1904 will be held on Monday and Tuesday, September 19th and 20th. Candidates must report at the Registrar's Office at 9 A. M. on Monday, September 19th.

REQUIREMENTS FOR ADMISSION TO SPECIAL COURSES

The various courses of study in the University, both graduate and undergraduate, are open to mature persons of good character who have had the training requisite to pursue them with profit. This privilege is intended for those who wish to take advantage of the instruction offered in special branches without pursuing the full course of study required of candidates for a degree.

All students who can do so are advised to matriculate for a degree, and no one will be allowed to use the privilege here offered for the purpose of securing a merely nominal connection with the University.

Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees, and must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment can be presented.

Applicants for special courses must present to the Dean of the University on or before August 1st a certified and detailed statement of the character and extent of their preparatory work, including testimonials of character and ability from the last school or college attended. In case a student has attended several preparatory schools, he must present credentials from all.

Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school cordially recommends such action.

Applicants must satisfy the officers of instruction, by examination or otherwise, that they are qualified to pursue the courses desired.

On leaving the University, a special student who desires a formal certificate of his attainments may receive it.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I.

ENGLISH

The preparation in English should include: (a) careful and prolonged training in grammar and composition; (b) thoughtful reading of all the prescribed books and careful study of those named in division 3 below. It is recommended that the student also do as much supplementary reading as possible and commit to memory a considerable amount of poetry. The examination is intended to test the candidate's power of clear and accurate expression and his knowledge and appreciation of the books read. A candidate will not be accepted if his writing is seriously defective in spelling, use of capitals, punctuation, grammar, use of words, or structure of sentences and paragraphs, or if it shows insufficient acquaintance with the subject-matter of the prescribed books. As additional evidence of preparation the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work. The examination consists of three parts, which, however, cannot be taken separately:

1. In the first part the candidate will be required to answer elementary questions in grammar and usage and to correct some examples of bad grammar and faulty choice of words.

2. In the second part the candidate should show a good general knowledge of the subject-matter of the books named; he should be able to state the leading thoughts of an essay, and to tell the main incidents, sketch the principal characters, and describe the striking scenes of a poem or novel. He should also be able to answer simple questions on the lives of the authors.

In 1904 and 1905 the books for this portion of the examination will be: Shakspeare's *Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1906, 1907 and 1908 they will be: Shakspeare's *Macbeth* and *The Merchant of Venice*; *The Sir Roger de Coverley Papers* in *The Spectator*; Irving's *Life of Goldsmith*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine* and *The Passing of Arthur*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

3. The third part requires careful and detailed study of the works named below. The examination covers subject-matter, logical structure, and literary form. Questions are asked about the style, the verse, the structure of the plots, the development of the characters, the meaning of words and allusions, and (in the case of essays and speeches) the logical structure of the whole.

In 1904 and 1905 the books for this portion of the examination will be: Shakspeare's *Macbeth*; Milton's *L'Allegro, Il Penseroso, Comus* and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1906, 1907 and 1908 they will be: Shakspeare's *Julius Cæsar*; Milton's *L'Allegro, Il Penseroso, Comus* and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Milton*, and *Life of Johnson*.

II.

ALGEBRA

Through equations of the second degree.

Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computation with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course. Candidates are especially urged not to neglect this subject.

The requirement in Algebra includes the following subjects: factors, common divisors and multiples; fractions, ratios and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations, and the reduction of equations; the ordinary methods of elimination, and the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

NOTE: It is very important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulæ, as, for example, the quadratic formula.

III.

PLANE GEOMETRY

The propositions which are contained in the ordinary treatises, and which are recognized as constituting the elements of Geometry; original propositions and problems in mensuration.

NOTE: Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. They should avoid mere memory work, and should take special care in the proof of a proposition that no lines be drawn unless their construction is proved to be possible.

The school curriculum ought to be so arranged that not a single term, much less a year, shall pass without some time being given to a mathematical subject and that both Algebra and Geometry shall be taken either in review or in advance during the last year of the course. For a four-year course an average of two and one-half hours a week during that time will give the best results.

IV.

SOLID GEOMETRY

The equivalent of Solid and Spherical Geometry as presented in Wells's *Geometry*, omitting the portion dealing with Regular Polyhedrons.

V.

PLANE TRIGONOMETRY

The equivalent of what is presented in the first seventy-six pages of Wells's *New Plane and Spherical Trigonometry*.

VI.

ELEMENTARY LATIN

1. Cæsar. *Gallic War*, books I-IV, or books I-III and Sallust's *Catiline*, with questions on the forms, constructions and subject-matter.
2. Cicero. The *Orations against Catiline* and the *Oration for Archias*, with questions on the grammar and subject-matter.
3. Ovid. Twenty-five hundred lines, with questions on the subject-matter and prosody.
4. Translation at sight of ordinary passages from Cæsar and Cicero, with questions on the ordinary forms and constructions.
5. Translation into Latin of simple English sentences.

VII.

ADVANCED LATIN

1. Includes 1, 2, 3 mentioned under Elementary Latin.
2. Vergil. *Æneid*, books I-VI, or books I-V and the *Eclogues*, with questions on the construction, subject-matter and prosody.
3. Translation at sight of prose and verse, with questions on the construction, subject-matter and prosody.
4. Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose.

VIII.

ELEMENTARY GREEK

1. Xenophon's *Anabasis*, books I, II, III, IV, regard being had not only to language but to subject-matter as well.
2. Grammar. A familiar knowledge of inflection, word-formation and ordinary syntax.
3. Composition. Preparation in writing *connected* Greek prose. Thorough work done in any text-book will be accepted. Candidates must show ability to write in Greek, with accents, an ordinary passage of English based upon material similar to the *Anabasis*.

IX.

ADVANCED GREEK

Three books of Homer, or *Anabasis*, books V, VI, VII, or *Anabasis*, book V and *Hellenica*, books I and II. Students will also be expected to show proficiency in the grammar and composition noted in the elementary requirement.

X.

ELEMENTARY FRENCH

1. Proficiency in elementary French grammar, implying, especially, familiarity with the following topics: inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs and of the more usual irregular verbs, such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire* and *craindre*.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Whitney's *Brief French Grammar* will be regarded as sufficient.

2. Ability to translate simple prose at sight.

NOTE: It is believed that the required facility can be gained by reading, concurrently with the grammar work, from two hundred to four hundred duodecimo pages, of at least three dissimilar works. Care should be taken not to read works assigned in the University courses.

3. Ability to pronounce French and to recognize French words and simple phrases when spoken.

NOTE: It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the French texts used in the class-room.

XI.

ADVANCED FRENCH

1. The translation at sight of standard French into good, idiomatic English.

2. The translation into French of a connected passage of English prose, to test the candidate's familiarity with grammar. Proficiency in grammar may also be tested by direct questions.

3. The writing of French from dictation.

Candidates will be expected to show a thorough knowledge of accidence, and familiarity with the essentials of French syntax, especially the uses of tenses, modes, prepositions and conjunctions.

The work to be done should comprise the reading of from four hundred to six hundred pages of ordinary French, including the amount read for the elementary requirement, constant practice in giving French paraphrases, abstracts or reproduction from memory of selected portions [read; the study of a grammar of moderate completeness; writing from dictation.

XII.

ELEMENTARY GERMAN

1. Proficiency in elementary German grammar, implying, especially, familiarity with the following topics: declension of such nouns as are readily classified and of adjectives and pronouns; conjugation of weak verbs and of the more usual strong verbs; the commoner prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not to be understood as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Whitney's *Brief German Grammar* will be regarded as sufficient.

2. Ability to translate a passage of simple prose at sight, when a vocabulary of the less usual words is furnished.

NOTE: It is believed that the required facility can be gained by reading, concurrently with the grammar work, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems. Care should be taken not to read works assigned in the University courses.

3. Ability to pronounce German and to recognize German words and simple phrases when spoken.

NOTE: It is recommended that from the beginning careful attention be given to the fluent and intelligent pronunciation of the German texts used in the class-room.

XIII.

ADVANCED GERMAN

In addition to the elementary requirements:

1. Ability to translate at sight ordinary German into good, idiomatic English, the passages for translation being suited to the proficiency of those who have read not less than five hundred pages of classical and contemporary prose and verse selected from such works as Lessing's *Minna von Barnhelm*; Schiller's *Wilhelm Tell*, *Maria Stuart*, *Jungfrau von Orleans* and *Gedichte*; Goethe's *Hermann und Dorothea* and *Gedichte*; Heine's *Reisebilder* and *Gedichte*; Freytag's *Die Journalisten* and *Bilder aus der Vergangenheit*; Scheffel's *Der Trompeter von Säckingen*; Uhland's *Gedichte*; Hoffmann's *Historische Erzählungen*; Meyer's *Gustav Adolf's Page*; Riehl's *Novellen*.

It is recommended that at least one-half of the reading be selected from the works of Lessing, Schiller and Goethe.

2. Ability to discuss the main facts in the life of each author studied and to discuss the characters in the dramas selected.

3. Ability to read every text intelligently in the original. Such proficiency can be acquired only by constant oral practice, in the classroom.

4. A knowledge of the elements of word-formation and of the principal uses of prepositions, conjunctions, modal auxiliaries, the subjunctive mode and the infinitive.

NOTE: Preparation for the advanced examination by candidates already prepared for the elementary examination should occupy at least five recitation periods a week in the last year of the preparatory course, or equivalent work otherwise distributed.

XIV.

HISTORY

Either of the two following groups, each including two fields of historical study:

1. Greek and Roman history. (a) Greek history to the death of Alexander, with due reference to Greek life, literature and art. (b) Roman history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. English and American history. (a) English history, with due reference to social and political development. (b) American history, with the elements of civil government.

For preparation in each of the two historical fields included in (1) and (2) a course of study equivalent to at least three lessons a week for one year will be necessary, or five lessons a week for one year for the two fields together.

The candidates will be expected to show such general knowledge of each field as may be acquired from the study of an accurate modern text-book of not less than three hundred pages, supplemented by not less than three hundred pages of suitable parallel readings.

The following text-books will indicate the kind and extent of preparation, other than that obtained through the parallel readings, which the candidate should possess:

Greek history. Botsford's *History of Greece* or Oman's *History of Greece*.

Roman history. Botsford's *History of Rome* or Pelham's *History of Rome*.

English history. Either Coman and Kendall's *History of England* or Larned's *History of England*.

American history. Either Montgomery's *Student's American History* or Johnston's *High School History of the United States*.

Suitable equivalents will be accepted for the foregoing text-books.

XV.

PHYSICS

The equivalent of Hall and Bergen's *Text-book of Physics*, together with an approved laboratory course of at least forty experiments.

XVI.

CHEMISTRY

Candidates will be expected to have a good knowledge of the non-metals and their principal combinations, the metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about 100 simple chemical experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Each candidate is expected to submit his manuscript notes, or reports of his work. It is supposed that a course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

XVII.

ASTRONOMY

Class instruction is assumed for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied:

The Celestial Sphere; designation of the directions of a heavenly body.

The Earth—its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar.

The Moon—its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses.

The Sun—its rotation, physical characteristics, light and heat.

The Planets—apparent and real motions, individual characteristics.

The Law of Gravitation—its control of the solar system; the tides.

Comets and Meteors.

The Stars; designation, classification by constellations, motions, distance, brightness, variables.

Stellar Systems; clusters, nebulae; the stellar universe, cosmogony.

XVIII.

PHYSIOGRAPHY

Class instruction is assumed for the equivalent of three hours a week for a school year in the elementary principles of the science. It includes the following subjects:

The Earth as a member of the solar system.

The Atmosphere; its nature, temperature, pressure, moisture and precipitation, circulation, storms, weather, climate.

The Oceans; form and general characteristics, life within the oceans, waves, currents, tides.

The Lands; distribution, structure, processes of denudation and reconstruction and the resulting topographic features such as plains, plateaus, mountains, valleys, hills, volcanoes.

Life on the earth; influence of nature on man, influence of man on nature.

XIX.

FREEHAND DRAWING

Candidates will be required to show ability to execute plain lettering with readiness and neatness; to make orthographic sketches of simple machine parts; to make intelligible perspective sketches of simple models, assuming different standpoints of observation and applying the principles of shade and shadow. Candidates should submit to the head of the department of drawing a complete set of drawings made under the supervision of a teacher of drawing and properly certified by him.

REQUIREMENTS FOR GRADUATE STUDENTS

REGISTRATION

1. To be registered as a graduate student, the applicant either must have received the degree of Bachelor of Arts, of Philosophy, of Science,* or of Letters from an institution of good standing; or, being a candidate for the degree of Bachelor of Arts, of Philosophy or of Science in Brown University, and having attained a rank of credit in the first three years of the undergraduate course, must have completed by the end of the third year the amount of work required for the baccalaureate degree for which he is a candidate, except the equivalent of the amount of extra work authorized by the Committee on Advanced Standing. But any student who, at the end of the third year of the undergraduate course, has to his credit less than the amount of work above indicated, may, after graduation, offer in fulfillment of the requirements for the degree of Master of Arts such extra work as he may have done in the undergraduate course, provided such extra work is in courses which may be taken by graduates and does not lie in more than three departments and provided the student has completed the extra work with credit.

2. On or before the first day of the academic year, each candidate for registration must file an application with the Dean of the Graduate Department, naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Dean, and the blank must be signed by the heads of the departments concerned. If not a student or graduate of Brown University, the candidate must submit to the Dean, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses pursued. Applications from students unable to register at the beginning of the year will be considered at any time.

ENROLLMENT

3. A student who has been duly registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Dean of the Graduate Department and by the Faculty.

4. On or before October 15th the head of each department, in which graduate students who propose to become candidates for degrees are working, shall submit to the Dean of the Graduate Department, for ap-

* NOTE. The degree of Bachelor of Science, when given for technical work, does not lead to the degree of Master of Arts or Doctor of Philosophy in Brown University. The degree of Bachelor of Science referred to in these regulations means a degree given only for a course of liberal study.

proval a statement of the work outlined for each such student by the department. In the case of candidates for the degree of Master of Arts, such statements shall together form a complete statement of the course. In the case of candidates for the degree of Doctor of Philosophy, the statements submitted in the first year of candidacy may be a preliminary outline of the course, but a complete statement of the course must be submitted not later than October 15th, in the last year of candidacy. To change a prescribed course it is necessary to address the Dean of the Graduate Department in writing, and to accompany the petition with the approval of the head of the department from which the change is to be made.

5. Although graduates of other colleges of good standing are entitled to registration as graduate students, they are not enrolled as candidates for degrees unless the course of study pursued by them in the institution from which they come is, in the opinion of the Dean of the Graduate Department acting in consultation with the Committee on Advanced Standing, substantially equivalent to the course leading to the corresponding degree in Brown University. While the privilege of enrollment, subject to the general regulations of the Faculty, is regularly granted to graduates of colleges and universities of high standing, each case is considered on its merits. Graduates of other colleges whose course of study is not, in the opinion of this joint Committee, equivalent to the corresponding course at Brown University may be registered as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the Committee.

THE DEGREE OF MASTER OF ARTS

6. To obtain the degree of Master of Arts, the candidate must have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters, or, being a candidate for the degree of Bachelor of Arts, of Philosophy or of Science in Brown University, must have been duly enrolled as a candidate for the degree of Master of Arts in the way previously specified, and must have completed a course of liberal graduate study, in addition to that required for the bachelor's degree, of not less than fifteen hours a week for one year, and must have passed satisfactory examinations thereupon. When graduate students pursue courses primarily designed for undergraduates, a higher degree of scholarship will be required than in the case of undergraduates.

Work definitely specified as done in residence for an advanced degree at another institution, and not to be used in fulfillment of the requirements for any advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfillment of the requirements for the degree of Master of Arts; but the equivalent of at least nine hours' work a week for one year must be done at Brown University.

7. By continuous residence at the University, candidates fulfilling the conditions specified in paragraph 6 may obtain the degree in one year. In cases of partial or entire non-residence, the degree of Master of Arts will not be conferred until after two years of study; but the work required is the equivalent of fifteen hours a week for one year. Candidates for this degree, registered in absentia, who desire some instruction at the University may register for the courses desired.

The degree of Master of Arts in absentia must be taken within three years after enrollment, unless the period is extended by special action of the Faculty. Candidacy may be terminated for cause at any time within six months after registration.

Candidates in absentia must register (by correspondence if necessary) at the beginning of each college year, and report to their instructors at the end of each term.

The examination of a candidate for the degree of Master of Arts in absentia will be held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to receive the degree. The examination is public.

THE DEGREE OF DOCTOR OF PHILOSOPHY

8. To obtain the degree of Doctor of Philosophy, the candidate must first have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters. He must spend at least two years continuously in residence, pursuing a systematic course of advanced study approved by the Graduate Department, the Faculty, and the Board of Fellows, and pass satisfactory examinations on the same. Work definitely specified as done in residence toward the degree of Doctor of Philosophy at another institution, and not to be used in fulfillment of the requirements for any advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfillment of the requirement for the degree of Doctor of Philosophy. One full year of continuous work, however, must be spent at Brown University. The candidate must conclude his course with a thesis embodying original research, giving evidence of high scholarship and of special attainments in the studies pursued, and constituting as a whole a definite contribution to knowledge. The thesis must be presented in advance of the examination.

9. For the degree of Doctor of Philosophy at least two courses are necessary, a major and a minor, not in the same department. The work of the major course shall be not less than three-fifths of the whole. The indication of both major and minor courses rests with the head of the department in which the major course is pursued, and a statement of the work indicated shall be admitted to the Dean by the head of the depart-

ment in which the major work is taken on or before October 15th; but the approval of the head of the department in which the minor course is offered is necessary before the minor course can be taken.

10. The candidate must further possess a reading knowledge of Latin, German and French, suitable for the purposes of his special studies, unless for sufficient reasons excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before December 1st, in the last year of his candidacy by a committee consisting of the heads of the departments in which the major and minor courses lie, and the heads of the departments of Latin, German and French.

11. A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

12. The candidate for the degree of Doctor of Philosophy is examined publicly before the first day of June by a committee consisting in each case of the Graduate Department, together with those members of the Faculty who have conducted the instruction of the candidate and any other officers of professorial rank in the respective departments. The examination is held only when notification of the intention to appear for examination is given on or before April 1st of the year in which the candidate desires to obtain his degree. The thesis of a candidate for the degree of Doctor of Philosophy must be presented to the Faculty, in typewritten copy or print, before May 1st, in that year. The approval of such thesis by the Faculty is essential to the attainment of the degree.

SPECIAL GRADUATE STUDENTS

13. Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are allowed to register as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidacy for degrees.

DUES

For the University dues connected with graduate study, see on a later page under "Expenses."

Undergraduate Courses Arranged According to Years and Terms

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

For students entering in 1902 or after

I. PRESCRIBED COURSES

Candidates are required to take certain studies before the completion of the course, as shown in the following tabulation:

Ancient Language (either Latin or Greek or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

Modern Language (either French or German or both). Six hours.

At least three hours must be taken in the Freshman year, and the whole six hours must be completed by the end of the Sophomore year.

If only one language is presented for admission the elementary course in the language not presented must be taken.

Languages in which elementary work only is presented for admission must be continued. If elementary work only is presented in one language that language must be continued in the Freshman year. If elementary work only is presented in both languages the continuation of one of these may be postponed to the Sophomore year.

Subject to the above restrictions a student may take the six hours required wholly in French, wholly in German, or three hours in each, choosing any courses for which he is fitted by his previous work.

Mathematics. Freshman year. Four hours.

Those who present Solid and Spherical Geometry and Plane Trigonometry must take Mathematics five hours a week during the Freshman year. This includes the courses now numbered Mathematics 4, 5, 6, 7, 9, 10, and 12. Students taking these courses will be enabled to begin work in sciences requiring Mathematics one year earlier than other students.

Rhetoric (elementary). Freshman year. Three hours.

Rhetoric (argumentation). Junior year. One hour.

European History. Three hours.

First and second terms in either the Sophomore or the Junior year.

English Literature. Three hours.

Sophomore, Junior or Senior year.

Physical or Natural Science, a continuous course throughout the year.

Three hours.

Freshman, Sophomore or Junior year.

Political Science, Social Science, and Political Economy. Three hours.

Sophomore, Junior or Senior year.

Philosophy. Three hours.

Sophomore, Junior or Senior year.

FRESHMAN YEAR

I. *Required Studies.*

Latin 1, 2, 3, or Greek A, B, C or 1, 2, 3. Three hours.

French A, B, C or 1, 2, 3, or 13, 14, 15. } Three hours.

German 1, 2, 3 or 24, 25, 26, or 34, 35, 36. }

Mathematics 3, 1, 2. Four hours, or

Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.

English 1, 2, 3. Three hours.

II. *Elective Studies.* One must be chosen in addition to those taken as required studies.

Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.

Greek A, B, C. For students presenting no Greek for admission.

Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.

French A, B, C. For students presenting no French for admission.

French 1, 2, 3. For students presenting elementary French for admission.

French 4, 5, 6 or 13, 14, 15. For students presenting elementary and advanced French for admission.

German 1, 2, 3. For students presenting no German for admission.

German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting elementary and advanced German for admission.

Greek 47, Latin 48, Indo-European Philology 1, (Greek and Roman Literature and History of Language). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to the consent of the department).

Botany 1, 2, 3. For all students.

Comparative Anatomy, 15, 1, 35. For all students.

SOPHOMORE YEAR.

I. Required studies which must be completed by the end of the Sophomore year.

That portion of the required work in ancient and modern languages not completed in the Freshman year.

II. *Other required and elective studies sufficient with studies taken under I. to make fifteen hours a week.

JUNIOR YEAR

I. Required studies which must be completed by the end of the Junior year.

English (argumentation). One hour.

The required History and Physical or Natural Science, if not previously taken.

II. *Other required and elective studies sufficient with studies taken under I. to make sixteen hours a week.

SENIOR YEAR

I. All required studies not previously taken.

II. *Elective studies sufficient with studies taken under I. to make fifteen hours a week.

*See list of elective studies on pages 41-45; also statements under Courses of Instruction Arranged According to Departments.

II. ELECTIVE COURSES

FIRST TERM

Arabic 1 Sr.	Comparative Anatomy 31 Jr. Sr.	German 49 Jr. Sr.
Aramaic 1 Sr.	Comparative Literature 1 Jr. Sr.	" 28 Jr. Sr.
Art 1 Jr. Sr.	Drawing 16 Fr. So. Jr. Sr.	" 46* Jr. Sr.
" 7 Jr. Sr.	Drawing 7 So. Jr. Sr.	" 16 Jr. Sr.
" 14 Jr. Sr.	" 8 So. Jr. Sr.	" 40 So. Jr. Sr.
Astronomy 1 Jr. Sr.	" 14 So. Jr. Sr.	" 10 Jr. Sr.
" 3 Jr. Sr.	" 10 So. Jr. Sr.	" 43* Jr. Sr.
" 8 Sr.	" 27 Jr. Sr.	" 34 Fr. So. Jr. Sr.
" 17 So. Jr. Sr.	" 15 So. Jr. Sr.	Sr.
Biblical Literature 1 So. Jr. Sr.	" 2 Fr. So. Jr. Sr.	German 52* Sr.
Biblical Literature 4 So. Jr. Sr.	Education 1 Jr. Sr.	" 61* Sr.
Biblical Literature 7 Jr. Sr.	" 4 Sr.	Greek A Fr. So. Jr. Sr.
Botany 1 Fr. So. Jr. Sr.	Elementary Law 1* Jr. Sr.	" 1 Fr. So. Jr. Sr.
Botany 4 So. Jr. Sr.	Elementary Law 4 Jr. Sr.	" 4 So.
" 7 So. Jr. Sr.	Elementary Law 9* Jr. Sr.	" 7* Jr. Sr.
Chemistry 1 Fr. So. Jr. Sr.	English 7 So. Jr. Sr.	" 10* Jr. Sr.
Chemistry 4 So. Jr. Sr.	" 13 So. Jr. Sr.	" 13* Jr. Sr.
" 7 Jr. Sr.	" 16 So. Jr. Sr.	" 16* Jr. Sr.
" 10 Jr. Sr.	" 19 Jr. Sr.	" 28* Jr. Sr.
" 41 Jr. Sr.	" 25* Jr. Sr.	" 45 Jr. Sr.
" 61* Jr. Sr.	" 31* Jr. Sr.	" 25* Sr.
" 71 Jr. Sr.	" 37 Jr. Sr.	" 32* Sr.
" 81 Jr. Sr.	" 40* Jr. Sr.	" 34 Sr.
Civil Engineering 1 So. Jr. Sr.	" 67 Jr. Sr.	" 41* Sr.
Civil Engineering 5, 5a Jr. Sr.	" 34 Jr. Sr.	" 46* Fr. So.
Civil Engineering 19* Jr. Sr.	" 46* Jr. Sr.	" 47 Fr. So.
Civil Engineering 29 Sr.	" 49 So. Jr. Sr.	Hebrew 1 Jr. Sr.
Civil Engineering 30 Sr.	" 52 So. Jr. Sr.	" 10 Sr.
Civil Engineering 35 Jr. Sr.	" 55* Jr. Sr.	" 16 Sr.
Comparative Anatomy 15 Fr. So. Jr. Sr.	" 61 Jr. Sr.	History 18* Jr. Sr.
Comparative Anatomy 3 So. Jr. Sr.	" 64 Sr.	" 15* Jr. Sr.
Comparative Anatomy 8 Jr. Sr.	" 73 Sr.	" 11 Jr. Sr.
Comparative Anatomy 19 Jr. Sr.	" 76 Sr.	" 19 Jr. Sr.
Comparative Anatomy 16* Jr. Sr.	French 4 Fr. So. Jr. Sr.	" 22* Jr. Sr.
	Sr.	" 25* Jr. Sr.
	French 13* Fr. So. Jr. Sr.	" 28 Jr. Sr.
	Sr.	" 34 Sr.
	French 37 Jr. Sr.	" 37 Sr.
	" 16* Sr.	Italian 1 Jr. Sr.
	Geology 1 Sr.	Latin 1 Fr. So. Jr. Sr.
	" 5 Sr.	" 4 So.
	German 4 So. Jr. Sr.	" 7 Jr. Sr.
	" 5 So. Jr. Sr.	" 11* Jr. Sr.
		" 10 Jr. Sr.
		" 37 So. Jr. Sr.
		" 16 Jr. Sr.
		" 19 Sr.
		" 22* Sr.
		Mathematics 9 So. Jr. Sr.

*Not offered in 1903-1904.

Mathematics 13 So. Jr. Sr.
 Mathematics 15 Jr. Sr.
 " 21* Sr.
 " 27* Sr.
 " 32* Sr.
 Mathematics 18 Sr.
 Mechanical Engineering 21 Jr. Sr.
 Mechanical Engineering 24 Sr.
 Mechanical Engineering 30 Jr. Sr.
 Mechanical Engineering 33* Jr. Sr.
 Mechanical Engineering 40 Jr. Sr.
 Mechanical Engineering 10-16 So. Jr. Sr.
 Mechanics 3 So. Jr. Sr.
 " 7 Jr. Sr.
 Music 1 So. Jr. Sr.
 " 4 Jr. Sr.
 " 7 Sr.
 " 10* Jr. Sr.

New Testament 5* Jr. Sr.
 New Testament 7 Jr. Sr.
 Philology 4 Jr. Sr.
 " 10* Sr.
 Philosophy 19 So. Jr. Sr.
 Philosophy 2 Jr. Sr.
 " 20 Sr.
 " 29 Jr. Sr.
 " 39 Sr.
 " 8 Jr. Sr.
 " 5 Sr.
 " 33 Sr.
 Physics 1 So. Jr. Sr.
 " 5 Jr. Sr.
 " 20 Sr.
 " 26 Sr.
 " 13 Sr.
 " 29 Jr. Sr.
 " 17 Sr.
 " 36 Sr.
 " 11 Jr. Sr.
 " 33 Sr.

Physics 43 Sr.
 Political Economy 1 Jr. Sr.
 Political Economy 13 Jr. Sr.
 Political Economy 19 Jr. Sr.
 Political Economy 6 Jr. Sr.
 Political Economy 22 Jr. Sr.
 Political Science 4 Jr. Sr.
 Political Science 3 Jr. Sr.
 Political Science 13 Sr.
 " " 8 Sr.
 " " 17 Sr.
 Social Science 12 So. Jr. Sr.
 Social Science 10 Jr. Sr.
 Social Science 1 Jr. Sr.
 Spanish 1 So. Jr. Sr.
 " 4 Jr. Sr.

SECOND TERM

Arabic 2 Sr.
 Aramaic 2 Sr.
 Art 4 Jr. Sr.
 " 9 Jr. Sr.
 " 15 Jr. Sr.
 Astronomy 2 Jr. Sr.
 " 4 Jr. Sr.
 " 9 Sr.
 " 18 So. Jr. Sr.
 Biblical Literature 2 So. Jr. Sr.
 Biblical Literature 5* So. Jr. Sr.
 Biblical Literature 8 Jr. Sr.
 Botany 2 Fr. So. Jr. Sr.
 Botany 5 So. Jr. Sr.
 " 12* So. Jr. Sr.
 Chemistry 2 Fr. So. Jr. Sr.
 Chemistry 5 So. Jr. Sr.
 " 8 Jr. Sr.
 " 11 Jr. Sr.

Chemistry 42 Jr. Sr.
 " 62* Jr. Sr.
 " 72 Jr. Sr.
 " 82 Jr. Sr.
 Civil Engineering 2 So. Jr. Sr.
 Civil Engineering 4 Jr. Sr.
 Civil Engineering 6 Jr. Sr.
 Civil Engineering 10 Jr. Sr.
 Civil Engineering 16 Sr.
 Civil Engineering 20* Jr. Sr.
 Civil Engineering 31 Sr.
 Civil Engineering 36 Jr. Sr.
 Civil Engineering 38 Jr. Sr.
 Comparative Anatomy 1 Fr. So. Jr. Sr.

Comparative Anatomy 4 So. Jr. Sr.
 Comparative Anatomy 10 Jr. Sr.
 Comparative Anatomy 20 Jr. Sr.
 Comparative Anatomy 17* Jr. Sr.
 Comparative Anatomy 32 Jr. Sr.
 Comparative Literature 2 Jr. Sr.
 Drawing 17 Fr. So. Jr. Sr.
 Drawing 14 So. Jr. Sr.
 " 8 So. Jr. Sr.
 " 11 So. Jr. Sr.
 " 28 Jr. Sr.
 " 15 So. Jr. Sr.
 " 19 So. Jr. Sr.
 " 21 So. Jr. Sr.
 " 3 Fr. So. Jr. Sr.
 Education 2 Jr. Sr.
 " 5 Sr.

*Not offered in 1903-1904.

Elementary Law 2* Jr. Sr.	Hebrew 2 Jr. Sr.	Philology 5 Jr. Sr.
Elementary Law 7 Jr. Sr.	“ 17 Sr.	“ 11* Sr.
Elementary Law 5* Jr. Sr.	“ 11 Sr.	Philosophy 27 So. Jr. Sr.
English 8 So. Jr. Sr.	History 3 Jr. Sr.	“ Sr.
“ 11 Jr. Sr.	“ 20 Jr. Sr.	Philosophy 3 Jr.
“ 14 So. Jr. Sr.	“ 23* Jr. Sr.	“ 21 Sr.
“ 17 So. Jr. Sr.	“ 26* Jr. Sr.	“ 30 Jr. Sr.
“ 20 Jr. Sr.	“ 29 Jr. Sr.	“ 40 Sr.
“ 26* Jr. Sr.	“ 35 Sr.	“ 9 Jr. Sr.
“ 32* Jr. Sr.	“ 38 Sr.	“ 23 Sr.
“ 38 Jr. Sr.	Italian 2 Jr. Sr.	“ 26* Sr.
“ 41* Jr. Sr.	Latin 2 Fr. So. Jr. Sr.	“ 17* Sr.
“ 68 Jr. Sr.	“ 5 So.	“ 34 Sr.
“ 35 Jr. Sr.	“ 8 Jr. Sr.	Physics 2 So. Jr. Sr.
“ 47* Jr. Sr.	“ 12* Jr. Sr.	“ 32* So. Jr. Sr.
“ 50 So. Jr. Sr.	“ 38 So. Jr. Sr.	“ 9 Jr. Sr.
“ 53 So. Jr. Sr.	“ 46* Fr. So.	“ 21 Sr.
“ 56* Jr. Sr.	“ 48 Fr. So.	“ 27 Sr.
“ 62 Jr. Sr.	“ 14 Jr. Sr.	“ 37* So. Jr. Sr.
“ 65 Sr.	“ 17 Jr. Sr.	“ 38* So. Jr. Sr.
“ 74 Sr.	“ 20 Sr.	“ 14 Sr.
French 5 Fr. So. Jr. Sr.	“ 23* Sr.	“ 18 Sr.
“ 14* Fr. So. Jr. Sr.	Mathematics 8 So. Jr. Sr.	“ 39 Sr.
French 38 Jr. Sr.	“ Sr.	“ 12 Jr. Sr.
“ 17* Sr.	Mathematics 10 So. Jr. Sr.	“ 30 Jr. Sr.
Geology 2 Sr.	“ Sr.	“ 34 Sr.
German 6 So. Jr. Sr.	Mathematics 14 So. Jr. Sr.	“ 44 Sr.
“ 7 So. Jr. Sr.	“ Sr.	“ 45 Sr.
“ 50 Jr. Sr.	Mathematics 16 Jr. Sr.	Political Economy 14
“ 29 Jr. Sr.	“ 22* Sr.	Jr. Sr.
“ 35 Fr. So. Jr. Sr.	“ 28* Sr.	Political Economy 2
Sr.	“ 33* Sr.	Jr. Sr.
German 44* Jr. Sr.	“ 19 Sr.	Political Economy 7
“ 53* Sr.	Mechanical Engineer-	Jr. Sr.
“ 62* Sr.	ing 22 Jr. Sr.	Political Economy 20
“ 47* Jr. Sr.	Mechanical Engineer-	Jr. Sr.
“ 17 Jr. Sr.	ing 25 Sr.	Political Economy 23
“ 41 So. Jr. Sr.	Mechanical Engineer-	Jr. Sr.
“ 11 Jr. Sr.	ing 31 Jr. Sr.	Political Science 12
Greek B Fr. So. Jr. Sr.	Mechanical Engineer-	So. Jr. Sr.
“ 2 Fr. So. Jr. Sr.	ing 34* Jr. Sr.	Political Science 7 Jr.
“ 6 So.	Mechanical Engineer-	Sr.
“ 8* Jr. Sr.	ing 41 Jr. Sr.	Political Science 2 Jr.
“ 12* Jr. Sr.	Mechanical Engineer-	Sr.
“ 14* Jr. Sr.	ing 10-16 So. Jr. Sr.	Political Science 15
“ 17 Jr. Sr.	Mechanics 4 So. Jr. Sr.	Jr. Sr.
“ 23 So. Jr. Sr.	“ 8 Jr. Sr.	Political Science 9 Sr.
“ 26* Sr.	Music 2 So. Jr. Sr.	“ “ 18 Sr.
“ 43 So. Jr. Sr.	“ 5 Jr. Sr.	“ “ 14 Sr.
“ 35 Sr.	“ 8 Sr.	“ “ 16 Jr.
“ 42* Sr.	“ 14 Jr. Sr.	Sr.
	“ 11* Jr. Sr.	Social Science 2 Jr. Sr.
	New Testament 1* Jr. Sr.	“ 5 Jr. Sr.
	New Testament 6 Jr. Sr.	Spanish 2 So. Jr.
		“ 5 Jr. Sr.
		Zoology 1 Jr. Sr.

THIRD TERM

Anthropology 1 Sr.	Comparative Anatomy 35 Fr. So. Jr. Sr.	English 69 Jr. Sr.
Arabic 3 Sr.	Comparative Anatomy 33 Jr. Sr.	" 66 Sr.
Aramaic 3 Sr.	Comparative Anatomy 34 So. Jr. Sr.	" 75 Sr.
Art 6 Jr. Sr.	Comparative Anatomy 38 Jr. Sr.	French 6 Fr. So. Jr. Sr.
" 8 Jr. Sr.	Comparative Anatomy 2 So. Jr. Sr.	French 15* Fr. So. Jr. Sr.
" 16 Jr. Sr.	Comparative Anatomy 18 Jr. Sr.	Sr.
Astronomy 6 Jr. Sr.	Comparative Anatomy 21 Jr. Sr.	French 39 Jr. Sr.
" 5 Jr. Sr.	Comparative Anatomy 30* Jr. Sr.	" 18* Sr.
" 10 Sr.	Comparative Literature 3 Jr. Sr.	Geology 9 Sr.
" 19 So. Jr. Sr.	Drawing 18 Fr. So. Jr. Sr.	German 8 So. Jr. Sr.
Sr.	Drawing 14 So. Jr. Sr.	" 9 So. Jr. Sr.
Biblical Literature 3 So. Jr. Sr.	" 8 So. Jr. Sr.	" 51 Jr. Sr.
Biblical Literature 6* So. Jr. Sr.	" 9 So. Jr. Sr.	" 30 Jr. Sr.
Biblical Literature 9 Jr. Sr.	" 12 So. Jr. Sr.	" 48* Jr. Sr.
Botany 3 Fr. So. Jr. Sr.	" 15 So. Jr. Sr.	" 18 Jr. Sr.
Botany 14 So. Jr. Sr.	" 20 So. Jr. Sr.	" 42 So. Jr. Sr.
" 9* So. Jr. Sr.	" 22 So. Jr. Sr.	" 12 Jr. Sr.
Chemistry 3 Fr. So. Jr. Sr.	" 4 Fr. So. Jr. Sr.	" 36 Fr. So. Jr. Sr.
Chemistry 6 So. Jr. Sr.	Sr.	Sr.
" 9 Jr. Sr.	Education 3 Jr. Sr.	German 45* Jr. Sr.
" 12 Jr. Sr.	" 6 Sr.	" 54* Sr.
" 13 Jr. Sr.	Elementary Law 3* Jr. Sr.	" 63* Sr.
" 23 Sr.	Sr.	Greek C Fr. So. Jr. Sr.
" 43 Jr. Sr.	Elementary Law 8 Jr. Sr.	" 3 Fr. So. Jr. Sr.
" 63 Jr. Sr.	Elementary Law 6 Jr. Sr.	" 5 So.
" 73 Jr. Sr.	Sr.	" 9* Jr. Sr.
" 83 Jr. Sr.	English 9 So. Jr. Sr.	" 15* Jr. Sr.
Civil Engineering 3 So. Jr. Sr.	" 12 Jr. Sr.	" 18 Jr. Sr.
Civil Engineering 8, 8a So. Jr. Sr.	" 15 So. Jr. Sr.	" 44* Jr. Sr.
Civil Engineering 7 Jr. Sr.	" 18 So. Jr. Sr.	" 24 So. Jr. Sr.
Civil Engineering 11 Jr. Sr.	" 21 Jr. Sr.	" 47 So. Jr. Sr.
Civil Engineering 17 Jr. Sr.	" 27* Jr. Sr.	" 36 Sr.
Civil Engineering 18 So. Jr. Sr.	" 33* Jr. Sr.	Hebrew 3 Jr. Sr.
Civil Engineering 21* Jr. Sr.	" 39 Jr. Sr.	" 18 Sr.
Civil Engineering 28 Jr. Sr.	" 42* Jr. Sr.	" 12 Sr.
Civil Engineering 32 Sr.	" 36 Jr. Sr.	History 16 Jr. Sr.
Civil Engineering 37 Jr. Sr.	" 48* Jr. Sr.	" 40 Jr. Sr.
	" 51 So. Jr. Sr.	" 21 Jr. Sr.
	" 54 So. Jr. Sr.	" 27* Jr. Sr.
	" 57* Jr. Sr.	" 24* Jr. Sr.
	" 63 Jr. Sr.	" 39 Sr.
		" 30 Jr. Sr.
		" 36 Sr.
		Italian 3 Jr. Sr.
		Latin 3 Fr. So. Jr. Sr.
		" 6 So.
		" 9 Jr. Sr.
		" 13* Jr. Sr.
		" 39 So. Jr. Sr.
		" 15 Jr. Sr.
		" 18 Jr. Sr.

*Not offered in 1903-1904.

Latin 21 Sr.	Mechanical Engineer-	Physics 48 Sr.
" 24* Sr.	ing 10-16 So. Jr. Sr.	" 15 Jr. Sr.
" 47* Fr. So.	Mechanics 6 So. Jr. Sr.	" 31 Jr. Sr.
Mathematics 11* So.	Music 3 So. Jr. Sr.	" 35 Sr.
Jr. Sr.	" 6 Jr. Sr.	" 47 Sr.
Mathematics 30 So. Jr.	" 9 Sr.	Political Economy 12
Sr.	" 15 Jr. Sr.	So. Jr. Sr.
Mathematics 12 So. Jr.	" 12* Jr. Sr.	Political Economy 3
Sr.	" 13* Jr. Sr.	Jr. Sr.
Mathematics 31 So. Jr.	New Testament 2 Jr.	Political Economy 18
Sr.	Sr.	Jr. Sr.
Mathematics 17 Jr. Sr.	New Testament 3 Jr.	Political Economy 16
" 23* Sr.	Sr.	Jr. Sr.
" 29* Sr.	Philology 1 Fr. So.	Political Economy 21
" 34* Sr.	" 6 Jr. Sr.	Jr. Sr.
" 20 Sr.	" 7 Sr.	Political Economy 24
Mechanical Engineer-	" 12* Sr.	Jr. Sr.
ing 9 Jr. Sr.	Philosophy 43 So. Jr.	Political Science 1 Jr.
Mechanical Engineer-	Sr.	Sr.
ing 20 So. Jr. Sr.	Philosophy 4 Jr.	Political Science 10 Sr.
Mechanical Engineer-	" 22 Sr.	" " 5 Sr.
ing 23 Jr. Sr.	" 31 Jr. Sr.	" " 6 Jr.
Mechanical Engineer-	" 41 Sr.	Sr.
ing 26 Sr.	" 10 Jr. Sr.	Political Science 19 Sr.
Mechanical Engineer-	" 24 Sr.	" " 11 Jr.
ing 27 Sr.	" 35 Sr.	Sr.
Mechanical Engineer-	" 44 Sr.	Social Science 3 Jr. Sr.
ing 32 Jr. Sr.	Physics 4 So. Jr. Sr.	" " 11 Jr. Sr.
Mechanical Engineer-	" 10 Jr. Sr.	Spanish 3 So. Jr.
ing 35* Jr. Sr.	" 28 Sr.	" 6 Jr. Sr.
Mechanical Engineer-	" 46 Sr.	Zoölogy 3 Jr. Sr.
ing 42 Jr. Sr.	" 16 Sr.	
	" 19 Sr.	

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

For students who entered before 1902

I. PRESCRIBED COURSES

JUNIOR YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, † twelve	Gymnasium	hours
hours	Electives, twelve	
	hours	

*Not offered in 1903-1904.

†Every candidate for the degree of Bachelor of Arts must take before graduation some one complete course in Philosophy.

SENIOR YEAR

With the exception of Gymnasium practice, the work of the Senior year consists entirely of elective studies, fifteen hours a week.

II. ELECTIVE COURSES

See list of elective studies on pages 41-45; also statements under Courses of Instruction Arranged According to Departments

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

For students entering in 1902 or after

I. PRESCRIBED COURSES

Candidates are required to take certain studies, before the completion of the course, as shown in the following tabulation:

Modern Language. An amount sufficient with the work presented for admission to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French and advanced German is required to continue only one of these languages for one year, three hours a week, in college.

**Mathematics.* Freshman year. Four or five hours.

English (elementary). Freshman year. Three hours.

English (advanced). Junior year. One hour.

European History. Three hours.

First and Second Terms in either the Sophomore or the Junior year.

Physical or Natural Science, a continuous course throughout the year.
Three hours.

Freshman, Sophomore or Junior year.

Philosophy. Three hours.

Sophomore, Junior or Senior year.

FRESHMAN YEAR.

I. *Required Studies.*

English 1, 2, 3. Three hours.

French A, B, C or 1, 2, 3, or 13, 14, 15. }
German 1, 2, 3 or 24, 25, 26, or 34, 35, 36. } Three hours.

Mathematics 3, 1, 2. Four hours, or

Mathematics 4, 5, 6, 7, 9, 10, 12. Five hours.

**Five hours for students presenting Solid and Spherical Geometry and Plane Trigonometry for entrance.*

II. *Elective Studies.* Two must be chosen in addition to those taken as required studies.

Latin 1, 2, 3. For students presenting elementary and advanced Latin for admission.

Greek A, B, C. For students presenting no Greek for admission.

Greek 1, 2, 3. For students presenting elementary and advanced Greek for admission.

French A, B, C. For students presenting no French for admission.

French 1, 2, 3. For students presenting elementary French for admission.

French 13, 14, 15. For students presenting elementary and advanced French for admission.

German 1, 2, 3. For students presenting no German for admission.

German 24, 25, 26. For students presenting elementary German for admission.

German 34, 35, 36. For students presenting elementary and advanced German for admission.

Greek 47, Latin 48, Indo-European Philology 1 (Greek and Roman Literature and History of Language). For all students.

Chemistry 1, 2, 3. For all students.

Chemistry 4, 5, 6. For students presenting Chemistry for admission (subject to the consent of the department).

Botany 1, 2, 3. For all students.

Comparative Anatomy 15, 1, 35. For all students.

Drawing 16, 17, 18. For all students.

SOPHOMORE YEAR

I. Required studies which must be completed by the end of the Sophomore year.

That portion of the required work in modern language not completed in the Freshman year.

II. *Other required and elective studies sufficient with those taken under I. to make fifteen hours a week.

JUNIOR YEAR

I. Required studies which must be completed by the end of the Junior year.

English (argumentation). One hour.

The required History and Physical or Natural Science, if not previously taken.

II. *Other required and elective studies sufficient with those taken under I. to make sixteen hours a week.

*Elective studies same as for candidates for the degree of Bachelor of Arts. See list on pages 41-45. Also statements under Courses of Instruction Arranged According to Departments.

SENIOR YEAR

- I. All required studies not previously taken.
 II. *Elective studies sufficient with those taken under I. to make fifteen hours a week.

II. ELECTIVE COURSES

Same as for candidates for the degree of Bachelor of Arts. See list on pages 41-45.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY

For students who entered before 1902

I. PRESCRIBED COURSES

JUNIOR YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, twelve hours	Gymnasium	hours
	Electives, twelve hours	

SENIOR YEAR

With the exception of the Gymnasium practice, the work of the Senior year consists entirely of elective studies, fifteen hours a week.

II. ELECTIVE COURSES

Same as for candidates for the degree of Bachelor of Arts. See list on pages 41-45.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

For students who entered before 1902

I. PRESCRIBED COURSES

JUNIOR YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
English 4	English 5	English 6
History 1	History 2	Electives, fifteen
Electives, † twelve hours	Gymnasium	hours
	Electives, twelve hours	

*Elective studies same as for candidates for the degree of Bachelor of Arts. See list on pages 41-45. Also statements under Courses of Instruction Arranged According to Departments.

†Every candidate for the degree of Bachelor of Science must take before graduation some one complete course in Philosophy.

SENIOR YEAR

With the exception of Gymnasium practice, the work of the Senior year consists of fifteen hours of electives a week.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For students entering in 1902 or after

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Civil Engineering 1	Civil Engineering 2	Civil Engineering 3
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Gymnasium	†Civil Engineering 8a, 8
		Civil Engineering 34

Also of the following courses, the subject not presented for admission :

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Civil Engineering 5, 5a	Civil Engineering 6	Civil Engineering 7
Mechanics 3	Mechanics 4	Mechanics 6
Astronomy 3	Astronomy 4	Astronomy 5
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
	Civil Engineering 10	Civil Engineering 17
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the department.

†Civil Engineering 8a is taken during the spring recess.

SENIOR YEAR

Civil Engineering 28	Civil Engineering 31	Civil Engineering 37
Civil Engineering 29	Civil Engineering 36	Civil Engineering 32
Civil Engineering 30	Civil Engineering 38	Civil Engineering 16
Mech. Engineering 6	Mech. Engineering 7	Civil Engineering 18
Mechanics 7	Mechanics 8	Civil Engineering 11
Geology 1	†Civil Engineering 10a	Civil Engineering 39
Thesis	Thesis	Thesis
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF CIVIL ENGINEER

For students who entered before 1902

JUNIOR YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Civil Engineering 5	Civil Engineering 6	Civil Engineering 7
Civil Engineering 5a	Mathematics 14	Civil Engineering 28
Mathematics 13	Mechanics 4	Mechanics 6
Mechanics 3	Astronomy 4	Astronomy 5
Astronomy 3	Physics 9	Physics 10
Physics 5	Civil Engineering 16	Mathematics 31
	Gymnasium	

SENIOR YEAR

Civil Engineering 29	Civil Engineering 10	Civil Engineering 11
Civil Engineering 30	Civil Engineering 36	Civil Engineering 18
Mech. Engineering 6	Civil Engineering 38	Civil Engineering 17
Mechanics 7	Civil Engineering 31	Civil Engineering 37
Geology 1	Mech. Engineering 7	Civil Engineering 32
Thesis	Mechanics 8	Civil Engineering 39
	Thesis	Thesis
	Gymnasium	

†Civil Engineering 10a is a continuation of Civil Engineering 10 and is subject to change.

FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For students entering in 1902 or after

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Drawing 10	Drawing 11	Mech. Engineering 20
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also of the following courses, the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Mech. Engineering 30	Mech. Engineering 31	Mech. Engineering 32
Mech. Engineering 33	Mech. Engineering 34	Mech. Engineering 35
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Mech. Engineering 21	Mech. Engineering 22	Mech. Engineering 23
Mechanics 3	Mechanics 4	Mechanics 6
Physics 5	Physics 9	Physics 10
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the department.

SENIOR YEAR

Mech. Engineering 40	Mech. Engineering 41	Mech. Engineering 42
Mech. Engineering 43	Mech. Engineering 15	Mech. Engineering 16
Mech. Engineering 24	Mech. Engineering 25	Mech. Engineering 26
Mechanics 7	Mechanics 8	Mech. Engineering 27
Physics 11	Physics 12	Physics 15
Thesis	Thesis	Thesis
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF
MECHANICAL ENGINEER*For students who entered before 1902*

JUNIOR YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Philosophy 19	Philosophy 27	Philosophy 43
Mathematics 13	Mathematics 14	Mech. Engineering 9
Mechanics 3	Mechanics 4	Mechanics 6
Drawing 10	Drawing 11	Drawing 12
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Physics 5	Physics 9	Physics 10
	Gymnasium	

SENIOR YEAR

Mechanics 7	Mechanics 8	Mech. Engineering 32
Mech. Engineering 30	Mech. Engineering 31	Mech. Engineering 42
Mech. Engineering 40	Mech. Engineering 41	Mech. Engineering 26
†Mech. Engineering 24	†Mech. Engineering 25	Mech. Engineering 27
Mech. Engineering 15	Mech. Engineering 16	Thesis
Thesis	Thesis	
	Gymnasium	

FOR CANDIDATES FOR THE DEGREE OF BACHELOR
OF SCIENCE IN ELECTRICAL ENGINEERING

FRESHMAN YEAR

<i>First Term</i>	<i>Second Term</i>	<i>Third Term</i>
Mathematics 38	Mathematics 39	Mathematics 40
Drawing 1	Drawing 5	Drawing 6
Civil Engineering 25	Civil Engineering 26	Civil Engineering 27
English 1	English 2	English 3
French 1 or German 24	French 2 or German 25	French 3 or German 26
	Gymnasium	

†Students who desire to pursue electrical work may, if they so elect, substitute Physics 11, 12 and 15 for Mechanical Engineering 24 and 25.

SOPHOMORE YEAR

Mathematics 41	Mathematics 42	Mathematics 43
Drawing 10	Drawing 11	Mech. Engineering 20
Physics 1	Physics 2	Physics 4
*Social Science 12	*Political Science 12	*Political Economy 12
	Mech. Engineering 10	Mech. Engineering 11
	Gymnasium	

Also of the following courses, the subject not presented for entrance:

Chemistry 1	Chemistry 2	Chemistry 3
French A	French B	French C
German 1	German 2	German 3

JUNIOR YEAR

Mechanics 3	Mechanics 4	Mechanics 6
Mech. Engineering 12	Mech. Engineering 13	Mech. Engineering 14
Mech. Engineering 21	Mech. Engineering 22	Mech. Engineering 23
Physics 5	Physics 9	Physics 10
Physics 11	Physics 12	Physics 15
Physics 41	Physics 40	Physics 42
	Gymnasium	

SENIOR YEAR

Mechanics 7	Mechanics 8	Civil Engineering 11
Mathematics 15	Physics 39	Physics 21
Physics 33	Physics 34	Physics 35
Physics 36	Physics 44	Physics 46
Physics 43	Physics 45	Physics 47
Thesis	Thesis	Thesis
	Gymnasium	

*Or some other course, not technical, chosen with the approval of the head of the department.

Courses of Instruction Arranged According to Departments

Courses grouped together, as Anatomy 15, 1, 35, below, may be taken only as a unit, unless it is expressly stated that they are elective separately.

I. ANATOMY (COMPARATIVE)

15, 1, 35. *Introductory Course.*

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates.

For general students as well as for Freshmen in the A. B. or the Ph. B. course who expect to pursue other courses in the department. By means of laboratory work in gross and minute anatomy and physiology, it introduces the student to scientific methods, to the structure and functions of animals, and to the general principles of biology.

Professor GORHAM

3, 4, 34. *Comparative Anatomy of Vertebrates.*

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors and Seniors who have passed in 35.

Critical and comparative study of the vertebrate organs, with special reference to the structure of man. In addition to the regular lectures, occasional lectures by physicians and others who have given attention to certain special subjects. A limited number of students are permitted to attend the clinics at the Rhode Island Hospital.

Professor WILLIAMS

9. *Bacteriology.*

Three hours. Six hours of attendance. First Term. Elective for Juniors and Seniors who have passed in 35.

Preparation and microscopic study of bacteria, the preparation of culture media, isolation, systematic study and determination of unknown species, qualitative and quantitative biological examination of water, milk, air and soil; methods of determining pathogenic properties of bacteria; methods of sterilization and disinfection; special work on pathogenic forms.

Professor GORHAM

10. *Histology.*

Three hours. Six hours of attendance. Second Term. Elective for Juniors and Seniors who have passed in 9.

Microscopic anatomy of tissues.

Professor WILLIAMS

[I. Anatomy (Comparative), continued.]

38. *Advanced Histology.*

Three hours. Six hours of attendance. Third Term. Elective for Juniors and Seniors who have passed in 10.

Dr. FULTON

2. *Invertebrate Anatomy.*

Three hours. Six hours of attendance. Third Term. Elective for students who have passed in 35 or 10.

Laboratory course in the comparative anatomy of the lower animals.

Professor WILLIAMS

18, 19, 20, 21. *Physiology.*

Three hours. Six hours of attendance. Third, First, Second and Third Terms. Elective for Juniors and Seniors who have passed in Chemistry 2.

Third and First Terms, chemical physiology—The chemistry of the proteids, carbohydrates and fats; the chemistry of salivary, gastric, and pancreatic digestion; blood, bile, and urine. Second and Third Terms, physical physiology—The nervous, muscular, circulatory, respiratory and alimentary systems.

Dr. SULLIVAN

[16, 17, 30. *Anatomy of the Nervous System.*]

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have passed in 35. Not offered in 1903-04. To be offered in 1904-05. Alternates with 31, 32, 33.

The gross anatomy and the microscopic structure of the nervous system in vertebrates, especially in man. Phylogeny, embryology and physiology of the nervous system and special nerve methods in micro-technic.

Professor MEAD.

31, 32, 33. *Comparative Embryology.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have passed in 35. Not to be offered in 1904-05. Alternates with 16, 17, 30.

Laboratory work. Designed to give a general idea of the principles of embryological development and of heredity, illustrating the fertilization and cleavage of the egg, metamorphosis, and organ formation.

Professor MEAD

25. *Biological Theories and Biological Problems.*

Through the year. Elective for Graduates.

Weekly seminary.

Professor MEAD

27. *Advanced Bacteriology.*

Through the year. Elective for Graduates.

Laboratory work and seminary.

Professor GORHAM

[I. Anatomy (Comparative), continued.]

28. *Advanced Physiology.*

Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology.

Laboratory work and seminary.

Dr. SULLIVAN

29. *Human Anatomy.*

Through the year. Elective for Graduates.

Laboratory instruction. In addition to the course in practical dissection, the students will have an opportunity to attend certain operations at the hospital and to be present at autopsies.

Dr. PERKINS and Dr. PEGRAM

HOUSEHOLD ECONOMICS

This subject is designed primarily for students of the Women's College. It deals with the fundamental principles which determine health and disease in the community, household and individual. Lectures and laboratory work. Three hours for two years.

1, 2, 3. *General Anatomy, Microscopical Anatomy and Physiology.*

Three hours. Six hours of attendance. Through the year. Elective for all students.

Parallel to Anatomy (Comparative) 15, 1, 35.

4. *Bacteriology.*

Three hours. Six hours of attendance. First Term. Elective for students who have passed in 3.

Parallel to Anatomy (Comparative) 9.

Professor GORHAM

5. *Foods.*

Three hours. Six hours of attendance. Second Term. Elective for students who have passed in 4.

Composition and nutritive values of food stuffs, and physiology of digestion and secretion.

Dr. SULLIVAN and special lecturers

6. *Hygiene.*

Three hours. Six hours of attendance. Third Term. Elective for students who have passed in 5.

Principles of municipal and house sanitation, personal hygiene, and the nature of common diseases. Lectures, visits to public works and hospitals, and laboratory work.

Dr. C. V. CHAPIN, Dr. F. T. FULTON, Dr. H. G. PARTRIDGE, Professor MEAD

II. ART

Professor POLAND

1. *Ancient Art or Classical Archæology.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

A general course in the history of ancient art, chiefly Greek. Text-book; lectures illustrated by casts, slides, photographs and engravings; collateral reading.

NOTE: Courses 1, 4 and 6 may be taken independently, but students are advised to elect all three in the above order, in which order they form a consecutive outline of the history of art. Students are strongly advised to take 1, if possible, before any other course in the history of art.

4. *Roman, Early Christian and Mediæval Art.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Study of Roman, Romanesque and Gothic art, with some notice of Byzantine, Arabian and Oriental art.

6. *Art of the Renaissance.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

The fifteenth and sixteenth centuries. The effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views.

NOTE: Courses 7, 9, described below, follow consecutively after course 6.

14, 15, 16. *Practical Work in Art.*

Three hours. Through the year. Elective for students who are taking, or who have passed in Art 1, 4, 6, and who have also passed in Drawing 2, 3, 4.

Six hours of drawing or other practical work. To illustrate the principles of delineation, color and chiaroscuro, and the principles of design in architecture, sculpture and painting, as exemplified in the historic forms of art.

This course will be given at the Rhode Island School of Design.

7, 9. *Modern Art.*

Three hours. First and Second Terms. Elective for Juniors, Seniors and Graduates who have passed in 6, which these courses follow consecutively.

First Term, the seventeenth and eighteenth centuries; Second Term, the nineteenth century.

[II. Art, continued.]

8. *Theory and Criticism of the Fine Arts.*

Three hours. Third Term. Elective for students who have passed in any course in Art.

A study of the more important facts and laws of artistic production.

[10. *Seminary in Classical Architecture.*]

Elective for Graduates. Not offered in 1903-04. Not to be offered in 1904-05.

Critical study; Vitruvius read in the original Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius in the Renaissance.

NOTE: Courses 10, 11 and 3, are critical courses in classical archæology, especially designed for those who wish to do advanced work in classical archæology, philology or history.

[11. *Seminary in Greek and Roman Sculpture.*]

Elective for Graduates. Not offered in 1903-04. Not to be offered in 1904-05.

[3. *Seminary Study of the Acropolis of Athens.*]

Elective for Graduates. Not offered in 1903-04. To be offered 1904-05.

Critical reading, in the Greek, of Pausanias's account of the Acropolis of Athens; lectures and illustrations.

[12. *Seminary in Renaissance Art.*]

Elective for Graduates. Not offered in 1903-04. Not to be offered in 1904-05.

MUSICAL HISTORY AND THEORY

Professor ASHTON

1, 2, 3. *Harmony.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

First Term, the construction and connection of chords, the writing of exercises; Second Term, modulation, non-harmonic notes, harmonization of melodies; Third Term, analysis of harmony in compositions by the best writers, the study of melody, the writing of compositions.

NOTE: Courses 1 to 9 inclusive are consecutive and must be taken in order.

4, 5, 6. *Counterpoint.*

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3.

Study of the rules of simple and double counterpoint; constant practice in contrapuntal writing; analysis of works by the best contrapuntal writers.

[II. Art, continued.]

7, 8, 9. *Composition.*

Three hours. Through the year. Elective for students who have passed with credit in 4, 5, 6.

14. *Musical Introduction.*

Three hours. Second Term. Elective for Juniors and Seniors who have not passed in or who are not taking 10, 11, 12.

A general course which considers such of the elements of music and the principles of musical composition as will enable the student to listen to music with intelligent interest and genuine profit.

15. *Music and Musicians of the Nineteenth Century.*

Three hours. Third Term. Elective for Juniors and Seniors who have not passed in or who are not taking 10, 11, 12.

A general course to acquaint the student with the life, works and style of Beethoven, Schubert, Schumann, Mendelssohn, Wagner and other famous composers of the nineteenth century.

[10, 11, 12. *Structure and History of Music.*]

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Lectures on the history of music from the earliest times down to the present, accompanied by an analysis of representative compositions.

[13. *Sacred Music.*]

Three hours. Third Term. Elective for Juniors and Seniors. Number of members limited to twelve.] Not offered in 1903-04.

The history of sacred music and a study of music in its application to religious worship. Designed for those who are to be intrusted with the direction of church music.

20, 21, 22. *The Symphony.*

Three hours. Through the year. Elective for Graduates.

Study of the evolution of the symphony orchestra and of the works of symphonists from Haydn to Brahms and Tchaikowsky.

III. ASTRONOMY

1, 2, 6. *General Course.*

Three hours. Through the year. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

Fundamental conceptions of the science, methods of professional study, and present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy*, lectures and abstracts upon assigned topics. Designed as a culture course or as a preparation for technical work.

Professor UPTON

[III. Astronomy.]

3, 4, 5. *Geodetic Astronomy.*

Three hours. Through the year. Required of Engineering students. Elective for Juniors and Seniors who have passed in Mathematics 1, 2, 3.

The application of astronomy to geodesy; use of the sextant, transit and zenith telescope for determining time, latitude, longitude and azimuth.

Professor SLOCUM

17, 18, 19. *Nautical Astronomy.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors who have passed in Mathematics 1, 2, 3.

The principles of navigation, the methods of determining the position of a ship at sea, together with the use of sextant, compass and chart for determining latitude, longitude, bearings and courses.

Professor SLOCUM

NOTE: Courses 3, 4, 5, and 17, 18, 19, cover in part the same ground and cannot both be taken by the same student, but either can be taken at the same time as the general course 1, 2, 6.

8, 9, 10. *Practical Astronomy.*

Three hours. Through the year. Elective for Graduates and for Undergraduates who have shown special aptitude in either 1, 2, 6, or 3, 4, 5.

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy*, with instrumental observations.

Professor UPTON

14, 15, 16. *Mathematical Astronomy.*

Three hours. Through the year. Elective for Graduates.

The mathematical theory of planetary and cometary orbits; micrometer observations and calculation of orbits.

Professor UPTON

PHYSICAL GEOGRAPHY

This subject is offered only to students of the Women's College.

1w. *Meteorology.*

Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

Professor SLOCUM

2w, 3w. *Physical Geography of the Sea and Land.*

Three hours. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Professor SLOCUM

IV. BIBLICAL LITERATURE AND HISTORY

HEBREW

1, 2, 3. *Elementary Hebrew.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Professor FOWLER and Mr. BROWN

16, 17, 18. *Historical Hebrew.*

Three hours. Through the year. Elective for students who have completed Hebrew 1, 2, 3.

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary. Review of the grammar.

Professor FOWLER and Mr. BROWN

10, 11, 12. *Hebrew Seminary.*

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

Subject for 1903-04: Wisdom Literature. Critical translation of the wisdom books of the Old Testament and study of the speculative thought of ancient Israel.

Professor FOWLER

ARAMAIC AND TALMUDIC

1, 2, 3. *Aramaic and Talmudic.*

Two hours. Through the year. Elective for Seniors and Graduates who have completed Hebrew 1, 2, 3.

First Term, study of the grammar and reading of the Targum. Second Term, reading of all the Aramaic portions of the Old Testament. Third Term, Selected Mishnaic treatises, Pirke Aboth. A study of the ethical teachings of the Rabbis.

Mr. BROWN

ARABIC

1, 2, 3. *Elementary Arabic.*

Two hours. Through the year. Elective for Seniors and Graduates.

Professor FOWLER

NOTE: In succeeding years corresponding courses in the Legal, Prophetic and Psalm Literature of the Old Testament will be offered.

[IV. Biblical Literature and History, continued.]

NEW TESTAMENT LANGUAGE AND LITERATURE

7, 6, 3. *Acts and Pauline Epistles.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Each term may be elected separately.

A study of the characteristics of Hellenistic Greek. Translation, analysis of structure and thought, investigation of date and authorship. First Term, Acts Second Term, Thessalonians and Galatians. Third Term, Corinthians and Romans.

Professor FOWLER

[5, 1, 2. *Gospels and Epistles.*]

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Professor FOWLER

BIBLICAL LITERATURE AND HISTORY IN ENGLISH

[4, 5, 6. *Hebrew History and Literature.*]

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors. Not offered in 1903-04.

First Term, early Semitic history and the beginnings of Hebrew history. Second Term, the United Kingdom. Third Term, the Divided Kingdom.

1, 2, 3. *Jewish and Early Christian History and Literature.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors. Each Term may be elected separately.

First Term, the history and literature of the Jewish people between the fall of Jerusalem in 586 and the re-dedication of the Temple in 165 B. C. Second Term, the Jewish and Roman life that constitutes the background of the New Testament, and the Jewish and Christian literature between 165 B. C. and 200 A. D. Third Term, historical study of the Life of Jesus and of the first half century of the Christian church.

Professor FOWLER

NOTE: Courses 1-6 in the English Bible are designed for general students as well as for those intending special Biblical work. They are not repeated in successive years, but form a two-years' consecutive course, giving a comprehensive view of the entire field of Biblical history. The sources, Biblical and monumental, for each epoch are studied; then the political, social and religious life and development. The date and authorship of books and the various other questions of literary history for each period are examined, and the teachings of the several documents are drawn out and formulated.

[IV. Biblical Literature and History, continued.]

7, 8, 9. *English Bible Seminary.*

Three hours. Through the year. Elective for Graduates, and qualified Juniors and Seniors.

Subject for 1903-04: The Literary History of Israel. Investigation of the growth of literature in ancient Israel in relation to the political, social and religious development of the people.

Professor FOWLER

Biblical Research Club. A Biblical Research Club, including Graduate and Undergraduate students, meets once a month for the review of new books and current literature, reading of papers and free discussion. Arrangements also are made for special addresses before the club.

V. BOTANY

1, 2, 3. *General Morphology, Physiology and Ecology.*

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates.

Comparative study of the seed, the seedling and the mature plant; variations due to environment; experiments in plant physiology, etc. Intended especially to train the student to observe and properly interpret the more obvious phenomena of plant life, as well as to furnish the necessary preparation for more advanced work.

Professor BAILEY and Mr. COLLINS

4, 5. *Histology and Physiology.*

Three hours. Six hours of attendance. First and Second Terms. Elective for Students who have passed in 1, 2, 3.

Structure and physiology of vegetable cells, tissues and organs; embryology; micro-technic.

Mr. COLLINS

14. *Medical Botany.*

Three hours. Five hours of attendance. Third Term. Elective for students who have passed in 5.

Systematic study of the more important medical plants and their constituents; location, characteristics and methods of extraction of the common drugs.

Mr. COLLINS

NOTE: 4, 5, 14, offered in 1903-04, alternates with 7, 12, 9.

[V. Botany, continued.]

[7. *Lower Cryptogams.*]

Three hours. Six hours of attendance. First Term. Elective for students who have passed in 3. Not offered in 1903-04.

Comparative study of the structure and development of types of the algæ and lower fungi; collection and classification.

Mr. COLLINS

[12. *Higher Cryptogams.*]

Three hours. Six hours of attendance. Second Term. Elective for students who have passed in 7. Not offered in 1903-04.

Structure, development and classification of the hepaticæ, mosses, ferns, horse-tails and club-mosses.

Mr. COLLINS

[9. *Mycology.*]

Three hours. Six hours of attendance. Third Term. Elective for students who have passed the required examinations. Not offered in 1903-04.

Structure, development, collection, preservation and classification of edible, poisonous and other economic fungi; plant diseases.

Mr. COLLINS

NOTE: 7, 12, 9, to be offered in 1904-05, alternates with 4, 5, 14.

VI. CHEMISTRY

1, 2, 3. *Descriptive Chemistry.*

Three hours. Through the year. Elective for Undergraduates.

Non-metals; metals, their metallurgy, compounds and practical applications; theoretical chemistry. Lectures with experiments, written exercises, individual laboratory work.

Professor BUCHER and Messrs. BABASINIAN and SMITH

4. *Qualitative Analysis.*

Three hours. Six hours of attendance. First Term. Elective for Juniors.

A study of the properties of the metallic elements together with their separation from certain of their compounds. Laboratory work, accompanied by recitations in qualitative analysis and in chemical philosophy, and exercises in stoichiometry.

Professor APPLETON and Mr. INCE

5. *Qualitative Analysis, continued.*

Three hours. Six hours of attendance. Second Term. Elective for Juniors.

A study of the principal non-metals and the acids formed by them as well as of the methods of separation and recognition of acids and acid radicles.

Professor APPLETON and Mr. INCE

[VI. Chemistry, continued.]

6. *Quantitative Analysis.*

Three hours. Six hours of attendance. Third Term. Elective for Juniors.

Study of quantitative precipitations and separations of the most important elements and compounds; a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.; studies in chemical philosophy and stoichiometry continued. Chiefly laboratory work.

Professor APPLETON and Mr. INCE

7, 8, 9. *Quantitative Analysis, advanced.*

Six hours. Twelve hours of attendance. Through the year. Elective for Seniors and Graduates who have passed in 1-6.

The assaying of metallic ores, analysis of agricultural materials, including commercial fertilizers, the testing of chemicals used in textile establishments, etc.

Professor APPLETON and Mr. INCE

10, 11, 12. *Organic Chemistry.*

Six hours. Through the year. Elective for Juniors, Seniors and Graduates.

Lectures, recitations and laboratory work. An extended series of exercises in the preparation and analysis of organic compounds, so selected as fairly to represent the different branches of this department. First and Second Term, three lectures a week and three laboratory periods a week.

Professor BUCHER and Mr. BABASINIAN

13. *Assaying.*

Six hours. Twelve hours of attendance. Third Term. Elective for Seniors and Graduates who have passed in 1-6.

Professor APPLETON and Mr. INCE

23. *Dyeing of Cotton, Wool and Silk.*

Six hours. Twelve hours of attendance. Third Term. Elective for Seniors and Graduates.

The preparation and use of mordants, dye-stuffs, etc.

Professor APPLETON and Mr. INCE

31, 32, 33. *Industrial Chemistry.*

One, Two or Three Terms. Elective for Graduates.

Lectures and laboratory work.

Professor APPLETON

41, 42, 43. *Physical Chemistry.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not to be offered in 1904-05.

Lectures and laboratory work.

Professor BUCHER

[VI. Chemistry, continued.]

[51, 52, 53. *Organic Chemistry, advanced course.*]

Elective for Graduates. Not offered in 1903-04. To be offered in 1904-05.

Professor BUCHER

[61, 62, 63. *Inorganic Chemistry, advanced course.*]

Elective for Juniors, Seniors and Graduates. Not offered in 1903-04. To be offered in 1904-05.

Professor BUCHER

71, 72, 73. *Organic Preparations, advanced course.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Professor BUCHER

81, 82, 83. *Inorganic Preparations, advanced course.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Professor BUCHER

91, 92, 93. *Research Work in Chemistry.*

Three hours. Through the year. Elective for Graduates.

Professor BUCHER

101, 102, 103. *Conference on Special Topics in Chemistry.*

One hour. Through the year. Elective for approved students.

Professor BUCHER

111, 112, 113. *Conference on Special Topics in Chemistry.*

One hour. Through the year. Elective for approved students.

Professor APPLETON

VII. DRAWING

1. *Elementary Mechanical Drawing.*

Four hours. Two hours of recitation and four hours of drawing. First Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Nature, care and use of drafting instruments; plane problem construction; theory of orthographic projection; discussion, proof, and graphic solution of problems in descriptive geometry relating to the point, line and plane.

Professor RANDALL and Mr. BROOKS

[VII. Drawing, continued.]

16. *Elementary Mechanical Drawing.*

Three hours. Six hours of drawing. First Term. Elective for Freshmen, candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors and Seniors.

Nature, care and use of drafting instruments; plane problem construction; elements of orthographic and isometric projection.

Professor RANDALL and Mr. BROOKS

5. *Descriptive Geometry.*

Four hours. Three hours of recitation and two hours of drawing. Second Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering. Elective for students who have passed in 1.

Line and surface generation and classification; discussion, proof and graphic solution of problems relating to the determination of planes tangent to surfaces of single and of double curvature; intersections and developments; presentation of principles involved in the solution of engineering problems.

Professor RANDALL

6. *Descriptive Geometry.*

Four hours. Three hours of recitation and two hours of drawing. Third Term. Required of Freshmen who are candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering. Elective for students who have passed in 5.

Intersections and developments; application of the principles of descriptive geometry in isometric drawing, in shades and shadows and perspective, in machine drawing, and in practical engineering problems.

Professor RANDALL

17. *Descriptive Geometry.*

Three hours. Two hours of recitation and two hours of drawing. Second Term. Elective for Freshmen, candidates for the degree of Bachelor of Philosophy, Sophomores, Juniors and Seniors who have passed in 1 or 16.

Theory of orthographic projection; discussion, proof and graphic solution of problems relating to the point, the straight line and the plane. A continuation of 16.

Professor RANDALL

18. *Descriptive Geometry.*

Three hours. Two hours of recitation and two hours of drawing. Third Term. Elective for Freshmen, candidates for the degree of Bachelor of Philosophy, Sophomores, Juniors and Seniors who have passed in 17.

Problems relating to the determination of planes tangent to surfaces of single and of double curvature; intersections and developments, including intersection of surfaces by planes, development of single curved surfaces, intersections of single and of double curved surfaces.

Professor RANDALL

[VII. Drawing, continued.]

7. *Shades and Shadows and Perspective.*

Three hours. Two hours of recitation and two hours of drawing. First Term. Elective for students who have passed in 6 or 18.

Application of the principles of descriptive geometry in the solution of problems relating to the shadow of the point, the shadow of the line, the shadow of the surface, the shade and shadow of the solid, to the perspective of the point, the line, the surface, the solid, to the perspective of curves, and to the perspective of shadows.

Professor RANDALL

14. *Shades and Shadows and Perspective, advanced.*

Three hours. Six hours of drawing. Elective for students who have passed in 7.

Application of the principles of shades and shadows and perspective in architectural drawing.

Professor RANDALL

8. *Elementary Machine Drawing.*

Three hours. Six hours of drawing. Elective for students who have passed in 5, 6, or 17, 18.

Presentation of conventional methods of representing the parts of machines; explanation of machines in detail; sketches, detail and assembly drawings.

Mr. BROOKS

10, 11. *Machine Drawing, advanced.*

Three hours. One hour of recitation and five hours of drawing. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 5, 6, or 17, 18.

Sketches, detail and assembly drawings of complicated machines. In connection with sketch and detail work, extensive practice in the inspection of drawings is given.

Mr. PHETTEPLACE

12. *Elements of Machine Design.*

Three hours. Six hours of drawing. Third Term. Elective for students who have passed in Drawing 10, 11.

• Design of the simpler mechanisms.

Mr. PHETTEPLACE

27, 28. *Machine Design, advanced.*

Three hours. Six hours of calculation and drawing. First and Second Terms. Required of candidates for the degree of Mechanical Engineer. Elective for students who have passed in 10, 11 and 12, and in Mechanics 3, 4, 6.

Extended problems in design, involving the calculation of the strength of the various parts of machines and structures.

Professor KENERSON and Mr. PHETTEPLACE

[VII. Drawing, continued.]

15. *Constructive Geometry.*

Three hours. Six hours of drawing. Through the year. Elective for students who have passed in 1 or 16.

Derivation, graphical test and proof of original methods of solving plane and solid geometrical problems. Mathematical.

Professor RANDALL and Mr. BROOKS

19. *Mechanical Drawing, practical.*

Three hours. Six hours of drawing. Second Term. Elective for students who have passed in 16.

Arranged for students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Exercises in intersections and developments; third quadrant projection; sketching and dimensioning; conventional methods of representing machine parts.

Mr. BROOKS

20. *Mechanical Drawing, practical.*

Three hours. Six hours of drawing. Third Term. Elective for students who have passed in 19.

Arranged for students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. Sketching, detailing, and assembling; exercises in reading drawings; architectural drawing, including the drawing of plans, elevations, and the details of building construction.

Mr. BROOKS

21, 22. *Architectural Drawing.*

Three hours. Six hours of drawing. Second and Third Terms. Elective for Sophomores, Juniors and Seniors who have passed in Drawing 7.

Principles of architectural design and composition. Working drawings and ordinary office practice. Given at the Rhode Island School of Design.

Professor HOMER of the Rhode Island School of Design

2, 3, 4. *Freehand Drawing.*

One hour. Two hours of drawing. Through the year. Elective for all students.

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects. Given at the Rhode Island School of Design.

Professor BLANCHARD and Messrs. TOLMAN and NISBET

VIII. ENGINEERING (CIVIL)

All courses in this department are required of candidates for the degree of Bachelor of Science in Civil Engineering; all except 25, 26, 27, 34 are elective for other students.

1, 2, 3. *Surveying.*

Three hours. Usually six hours of field work or drafting. Through the year. Elective for students who have passed in Mathematics 1, 2 and 3, and in Drawing 1 or 16.

Elementary course designed to give the theory and practice of plane surveying in the field and drafting room. Use of tape, compass, level and transit. Adjustments of instruments. Lectures, recitations, field work and drafting.

Professors HILL and BLANCHARD

4. *Topographical Drawing.*

Three hours. Six hours of drafting. Second Term. Elective for Juniors and Seniors who have passed in Drawing 1 or 16.

Pen and colored topography. Hill shading by different methods, contour drawing, topographic map, conventional signs for structural materials.

Professor BLANCHARD

8, 8a. *Surveying, advanced.*

One hour and three hours. Third Term. Elective for students who have passed in 1 and 2.

Topography and hydography, city surveying. Methods as in 1, 2, 3. Use of stadia, plane table, sextant and barometer. Precise base-line measurements with steel tape. The field work (8a) is done during the spring recess.

Professors HILL and BLANCHARD

5, 5a, 6, 7. *Railroad Engineering.*

Two, four (eight hours of field work), three and three hours. First, Second and Third Terms. Elective for students who have passed in 3 and 8.

Theory, location, construction and economics. Methods as in 1, 2, 3. First Term, railroad curves and practical problems; actual location of a line about two miles long, map and estimate of cost. Second Term, railroad track and track work, ties, ballast, rails, frogs, switches, etc.; maintenance of way department; methods of work. Third Term, railroad structures, trestles, culverts, etc.; economics of location.

Professors HILL and BLANCHARD

[VIII. Engineering (Civil), continued.]

10. *Hydraulic Engineering.*

Three hours. Second Term. Elective for Juniors and Seniors.

Consideration of water supply mainly from a sanitary standpoint. A general course designed to give the chemical and biological aspects of water supply without laboratory work. Quantity and quality of water for public supplies, sources of supply, purification of water by various methods. Lectures, recitations and seminary work.

Professor HILL

NOTE: Courses 10, 11 and 17 cover the general subject of sanitation.

11. *Hydraulic Engineering.*

Three hours. Third Term. Elective for students who have passed in Mathematics 13 and Mechanics 4.

Supplements the courses in Mechanics 7 and 8, which give the theoretical treatment of the subject. Consideration of water supply mainly from an engineering standpoint. Irrigation, pumps and pumping machinery. Construction of dams, reservoirs and rivers. Lectures, recitations and seminary work.

Professor HILL

16. *Geodesy.*

Three hours. One hour of recitation and five hours of computation. Second Term. Elective for students who have passed in 3 and 8 and Astronomy 4.

Problems in geodetic surveying. Only sufficient theory is given in this course for a proper understanding of the formulæ used in geodetic computations. The work is mainly the solution of actual problems. Lectures and computations.

Professor HILL

17. *Sanitary Engineering.*

Three hours. Third Term. Elective for students who have passed in Mathematics 13, Mechanics 4 and Drawing 6.

Sewerage and house drainage. Chiefly devoted to the theory of sewerage, with occasional problems in design. Treatment and disposal of sewage, stream pollution, appliances used in construction and for cleaning, amount and velocity of flow, house drainage and its appliances, garbage collection and disposal. Lectures, recitations and seminary work.

Professor HILL

18. *Roads and Pavements.*

Three hours. Third Term. Elective for Sophomores, Juniors and Seniors.

A general descriptive course. Location, foundation, and grades of country roads and city streets. Materials and methods of laying, cost and maintenance, tools and machinery.

Professor BLANCHARD

[VIII. Engineering (Civil), continued.]

[19, 20, 21. *Laboratory Investigations.*]

Three hours. Through the year. Elective for students who have passed in Mathematics 13, Mechanics 4 and Drawing 6. Not offered in 1903-04.

Use and adjustment of instruments, testing materials, stereotomy.

Professor HILL

NOTE: For 1903-04 students in Civil Engineering will take Mechanical Engineering 40 and 41 in place of Civil Engineering 19 and 20.

25, 26, 27. *Lettering.*

One hour. Two hours of drafting. Through the year.

Offers sufficient practice in a few simple forms of letters to enable the students to do acceptable work in the drafting room.

Professor HILL

28. *Framed Structures.*

Three hours. Third Term. Elective for students who have passed in Mathematics 13, Mechanics 4, and Drawing 1 or 16.

Standard forms of simple roof trusses. Calculation of stresses due to dead, snow and wind loads by analytical methods. Standard forms of highway and railroad bridges. Calculation of stresses in Pratt, Howe, Warren and parabolic trusses due to dead, wind, uniform live, excess panel live and locomotive wheel loads by analytical methods. Miscellaneous trusses, skew bridges, deflection and internal work of trusses, influence lines, cranes, trussed bents and towers. Lectures, recitations and seminary work.

Professor BLANCHARD

29. *Structural Details.*

Three hours. First Term. Elective for students who have passed in Mathematics 13, Mechanics 6 and Drawing 1 or 16.

First principles of designing. Riveted joints, roof details, tension members, combined direct and bending stresses, secondary stresses, columns under direct and eccentric loading. Details of plate girder, parabolic highway, pin-connected and riveted Pratt truss railroad bridges. Construction of viaducts and elevated railroads. Steel mill-building and high building construction. Comparison of standard structural specifications. Lectures and computation.

Professor BLANCHARD

[VIII. Engineering (Civil), continued.]

30. *Roof Design and Graphic Statics.*

Three hours. Six hours of drafting. First Term. Elective for students who have passed in 28.

Elements of graphical constructions. Graphic determination of center of gravity and moment of inertia of combinations of structural shapes. Determination of stresses in simple roof trusses by graphical methods. Moment and shear diagrams for the determination of stresses in plate girder bridges, Pratt trusses, and bridge trusses with inclined chords. Complete design with shop drawings of a fifty to seventy foot roof truss. Revision and discussion of checked drawings. Drawing and computation. Inspection trips.

Professor BLANCHARD

31. *Bridge Design.*

Six hours. Twelve hours of drafting. Second Term. Elective for students who have passed in 30.

Detail design with shop drawings of a heavy plate girder railroad bridge. General design and shop drawings of a two hundred foot parabolic highway bridge. General class design of a high railroad viaduct. Lectures on American and English shop practice, the esthetic design of bridges, design of stand pipes and elevated tanks, and American methods of erection of bridges and structures. Drawing, computation, field excursions and seminary work or lectures.

Professor BLANCHARD

32. *Bridges.*

Two hours. Third Term. Elective for students who have passed in 28.

Continuous bridges. Theorem of three moments, swing bridges, calculation of stresses in continuous and non-continuous centre bearing swing bridges, draw span machinery, cantilever bridges, general analysis of stresses, suspension bridges, stresses in and deflection of the cables, temperature stresses in the cables and in the stiffening trusses, the Melan theory of the suspension bridge, economic comparison of cantilever and suspension bridges, general analysis of three-hinged, two-hinged and fixed end arches. Lectures, recitations and seminary work.

Professor BLANCHARD

34. *Mineralogy.*

Three hours. Third Term.

Elements of crystallography. Properties and classification of the minerals found in building stones and the important ores of iron, zinc, copper and lead. Lectures on the economic effect of minerals in building stones. Blowpipe and chemical analysis in the laboratory.

Professor BLANCHARD

[VIII. Engineering (Civil), continued.]

35. *Municipal Improvements.*

Three hours. First Term. Elective for Juniors and Seniors. Offered only if ten or more elect the course.

Economic and social aspects of sewerage, water works, pavements, etc.

Professor HILL

36, 37. *Masonry Structures.*

One hour. Three hours. One hour recitation and four hours of drafting. Second and Third Terms. Elective for students who have passed in Mechanics 6 and Drawing 6.

Static and elastic theory of the masonry arch. Design of a stone arch. Theory and construction of concrete-steel structures. Determination of the forms and dimensions of stones in a plateband arch. Theory and design of retaining walls, earth and high masonry dams.

Professor BLANCHARD

38. *Foundations.*

Two hours. Second Term. Elective for students who have passed in Mechanics 6.

Soundings and borings, foundation-beds, deposition of concrete under water, timber foundations, coffer dams, open caissons, Cushing cylinder piers, pile formulæ, driving and foundations, pneumatic caissons of wood and steel, open dredging, Poetsch freezing process, foundations in quicksand, foundations for high buildings, theory and design of piers for deep foundations.

Professor BLANCHARD

39. *Contracts and Specifications.*

One hour. Third Term. Elective for students in Mechanical and Electrical Engineering.

Essential elements of a contract, the parties to a contract, considerations, bids and bidders, work for private parties and public work. Employment of engineers, liability of engineer as a professional man; when his functions are judicial; when a public officer. Engineering specifications and accompanying documents.

Professor BLANCHARD

Thesis. A graduation thesis on a professional subject is required of every candidate for the degree of Civil Engineer. The thesis must embody either a design or a review of an engineering plant, appliance, process or structure, or the results of an experimental investigation.

IX. ENGINEERING (MECHANICAL)

All courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Though courses 10 to 16 are all open to Sophomores, Juniors and Seniors, no more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.

9. *Thermodynamics of the Steam Engine.*

Three hours. Third Term. Elective for students who have passed in Physics 1, 2, 4 and in Mathematics 12, 13 and 14.

Principles of gases and vapors as applied to the steam engine and other heat engines.

Professor KENERSON

10, 11, 12. *Wood-work.*

Three hours. Six hours of attendance. Elective for Sophomores, Juniors and Seniors.

Exercises in carpentry, wood-turning and pattern-making. The use of the ordinary hand-tools is taught by a progressive series of exercises, which are varied somewhat to meet individual requirements. Lathe exercises and face-plate work follow; then pattern making is begun. A certain minimum is required, but a student may, if proficient, do additional work as his time will allow. In connection with pattern-making various machines are used, such as buzz and hand-saws, planer, boring and mortising machines, trimmer, etc.

Mr. CADY

13, 14, 15, 16. *Metal-work.*

Three hours. Six hours of attendance. Elective for Sophomores, Juniors and Seniors.

Exercises in chipping and filing. Construction of practice pieces, and parts of complete machines, making necessary the intelligent use of the engine and speed lathe, milling machine, shaper, planer, surface and universal grinder, drills, etc. Forging and hardening of tools, case hardening, and hardening and tempering of cutters, etc. Some training in simple press-work of metals. From the first, students are required to work to gauge and, as far as possible, all exercises are designed to produce finished pieces of value, which become the property of the student.

Mr. STARK

20, 21, 22, 23. *Kinematics.*

Three hours. Third, First, Second and Third Terms. Elective for students who have passed in Drawing 10, 11.

Each student is required to present a paper before the class completely describing some interesting mechanism. The study of velocity ratios, rolling curves, cams, gearing, linkwork, belting, trains of mechanism and aggregate combinations; of machine tools and the application of the foregoing principles to produce the desired relative motions of parts in such machines. Recitations, drawing and the solution of problems.

Mr. PHETTEPLACE

[IX. Engineering (Mechanical), continued.]

24, 25, 26, 27. *Machine Design.*

Three hours. Six hours of attendance. First, Second, Third and Third Terms. Elective for students who have passed in 20, 21, 22, 23 and Mechanics 3, 4, 6.

Principles of mechanics and strength of materials applied to the design of representative types of boilers, engines and various mechanisms. Solution of problems illustrating the method of designing bolts and nuts, keys, journals and bearings, fly-wheels, valve gears, etc. Lectures, calculation and drawing.

Mr. PHETTEPLACE

30, 31, 32. *Steam Engineering.*

Three hours. First, Second and Third Terms. Elective for students who have passed in or are taking 33, 34, 35.

Practical applications of the principles of thermodynamics and mechanics to the production, transmission, utilization and measurement of power. Valves and valve gears, and valve setting. Indicator practice and tests of various forms of steam engines, air compressors, gas engines, etc. Co-efficient of friction and slip in various forms of rope and belt transmission. Tests of pumps and water-wheels, and measurement of flow of water and steam. Standardization of auxiliary apparatus used in making the various tests. Boiler testing, flue gas and fuel analysis, etc. Largely a laboratory course.

Professor KENERSON

[33, 34, 35. *Thermodynamics.*]

Three hours. First, Second and Third Terms. Elective for students who have passed in Physics 1, 2, 4 and Mathematics 12, 13, 14 or 41, 42, 43. Not offered in 1903-04.

Principles of gases and vapors as applied to steam, gas and other heat engines, air-compressor, refrigerating apparatus, etc. Discussion of the energy of fuel and the utilization of such energy for power purposes by means of various media. Laws of the relation of variations of pressure, temperature and volume of such media. Design of proper cylinders for producing a desired amount of power. Principles of the injector and ejector.

Professor KENERSON

40, 41. *Materials of Engineering.*

Three hours. First and Second Terms. Elective for students who have passed in Mechanics 3, 4, 6.

Study of the sources, manufacture and properties of the important materials used in engineering. Laboratory tests to determine the behavior of materials when subjected to tensile, compressive and tortional stresses. Mixing and testing of cements and mortars. Preparation and examination of sections for the microscopical study of the structure of metals and alloys.

Professor KENERSON and Mr. PHETTEPLACE

[IX. Engineering (Mechanical), continued.]

42. *Power Plant Engineering.*

Three hours. Third Term. Elective for students who have passed in 30, 31, 32, and 40, 41.

Discussion of the relation and co-ordination of various parts of the complete power plant. Management and methods of determining efficiency. Selection of best equipment for solution of various engineering problems from manufacturers' catalogues and actual inspection. Lectures, recitations, tests and tours of inspection.

Professor KENERSON

[43. *Advanced Engineering Laboratory.*]

Three hours. First Term. Not offered in 1903-04.

Professor KENERSON

Thesis. A graduation thesis is required of all students who are candidates for the degree of Bachelor of Science in Mechanical Engineering. It may be based either on extended independent study, on original experiments by the student, or on an original design of some complicated machine. In any case it must exhibit satisfactory ability in the student as an engineer.

MECHANICS

Professor CLARKE

3, 4, 6. *Mechanics of Solids.*

Three hours. Through the year. Elective for students who have passed in Mathematics 9, 10 and 12, and who are taking Mathematics 13.

Statics; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy, and power, friction; strength of materials, including tension, compression, shearing, torsion, flexure, arches, and methods of graphical solution of problems.

7, 8. *Mechanics of Fluids.*

Three hours. First and Second Terms. Elective for students who have passed in 3, 4, 6.

Hydrostatics of liquids, including pressure of liquids in tanks and reservoirs, earth pressure and retaining walls, immersion and flotation; hydrodynamics, including steady flow, impulse and resistance.

NOTE: Courses 3, 4, 6, and 7, 8 cover essentially the same ground as Church's *Mechanics of Engineering*, supplemented by a large number of original problems illustrative of the principles under the different conditions which arise in their application.

X. ENGLISH LITERATURE AND LANGUAGE

NOTE: Credit for entrance English is a prerequisite to admission to any English course. This rule applies to special students as well as to candidates for a degree.

Attention is called to the fact that three courses in literature (16, 17, 18; 49, 50, 51; 52, 53, 54) are open to Sophomores, Juniors and Seniors with no prerequisite except entrance English, and that the literary course in Shakspeare (67, 68, 69) is similarly open to Juniors and Seniors. Sophomores, however, will not be allowed to elect more than one course in literature; thus if a Sophomore elect 16, 17, 18, he cannot also take 49, 50, 51, and *vice versa*.

The requirement that candidates for the degree of A.B. must take one course in English literature can be met by taking any one of the four courses designated above.

Students who intend to take only one course in English literature in college are advised to select 16, 17, 18; but those who intend to take more than one will do well to begin at once with some of the other courses.

1, 2, 3. *Rhetoric and Composition*.

Three hours. Through the year. Required of all Freshmen.

Professors DAMON, BENEDICT and HUNTINGTON, Messrs. LATHAM, HERSEY, HASTINGS and PHILLIPS

4, 5, 6. *Argumentative Composition*.

One hour. Through the year. Required of Juniors who are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy, but credit for 1, 2, 3 is a prerequisite.

The class meets twice a week at first, but the total number of meetings will not exceed the usual number in a one-hour course.

Professors BENEDICT and HUNTINGTON, Messrs. LATHAM, HERSEY and PHILLIPS

7, 8, 9. *English Composition, advanced*.

Three hours. Through the year. Elective for a limited number of Undergraduates who have passed in 1, 2, 3.

Professor DAMON

11, 12. *Debate*.

Three hours. Second and Third Terms. Elective for a limited number of Juniors and Seniors who have passed in at least one term of argumentation.

Every member of the class is expected to take part, as a principal disputant, in three debates each term. The class meets once or twice a week, according to the number of members.

NOTE: Juniors may substitute 11 for 5, 6.

Professor HUNTINGTON, with the co-operation of the Professors of Political Economy, Social and Political Science, History, and Public Speaking

[X. English Literature and Language, continued.]

13, 14, 15. *Public Speaking.*

Three hours. Through the year. Elective for all Undergraduates. During the First and Second Terms one extra hour a week is required for practice work.

General theory, vocal interpretation of literature, extempore speaking and original written orations.

Professor CROSBY

76. *Public Speaking, advanced course.*

One hour. First Term. Elective, with consent of the instructor, for a limited number of Seniors.

Bible and hymn reading. Liturgic expression. Discussion of cause and remedy of ministerial sore throat. Careful attention given to proper voice production, and to lyric, dramatic, and epic thinking and expression.

Professor CROSBY

NOTE; Only those who can give a fair amount of time to practice work and to preparation of lessons are advised to elect the course.

16, 17, 18. *English Literature, introductory.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

Designed to cultivate an intelligent appreciation of the greater poets and prose writers, and to give a general knowledge of the history of English literature.

Professor BRONSON

19, 20, 21. *Old English.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

The essentials of Anglo-Saxon grammar. Prose selections. *Béowulf*.

Professor POTTER

[25, 26, 27. *Chaucer.*]

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

First and Second Terms, mainly linguistic work, aiming to enable the student to read Chaucer intelligently. Third Term, somewhat rapid reading in Chaucer, Langland and Gower, and study of Chaucer's art as poet and metrist, and of his influence on English poetry.

Professor POTTER

NOTE: Advanced courses in Old English, Middle English and Historical Grammar will be offered by Professor Potter according to the needs of qualified students.

[X. English Literature and Language, continued.]

[31, 32, 33. *English Literature, exclusive of the Drama, from 1400 to 1600.*]

Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not offered in 1903-04.

Mediæval literary forms and the transition to the modern period: romance, ballad, allegory, satire, miracle play, the beginning of prose, Elizabethan novels and lyrics.

Professor BENEDICT

37, 38, 39. *English Drama from the Miracle Plays to the Closing of the Theatre.*

Three hours. Through the year. Elective for those who have passed in 16, 17, 18. Not to be offered in 1904-05.

The drama as a literary type and its history in England from the Scripture Cycles down to 1642. Representative specimens of the early drama and the principal works of Lyly, Greene, Peele, Marlowe, Shakspeare, Dekker, Ben Jonson, Heywood, Beaumont and Fletcher, Middleton, Webster, and others will be read and discussed.

Professor POTTER

[40, 41, 42. *Shakspeare.*]

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1903-04.

Intended to develop the power to read Shakspeare with intelligent appreciation. A small number of plays are studied carefully with special attention to exact interpretation and to those peculiarities of language in which Shaksperian usage differs from our own.

Professor POTTER

67, 68, 69. *Shakspeare.*

Three hours. Through the year. Elective for Juniors and Seniors.

A literary course, intended for purposes of general culture. All the plays are read, and the greater plays are studied as to style, sources and structure of plot, character-portrayal, and *motif*. As an aid to the broader appreciation of Shakspeare, some attention is paid to the history of the English drama.

Professor CROSBY

34, 35, 36. *English Literature, exclusive of the Drama, from 1600 to 1660.*

Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not to be offered in 1904-05.

The course will centre in Milton.

Professor BRONSON

[X. English Literature and Language, continued.]

[46, 47, 48. *English Literature from 1660 to 1798.*]

Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not offered in 1903-04.

Dryden, Bunyan, Swift, Addison, Pope, Thomson, Defoe, Richardson, Fielding, Smollett, Sterne, Gray, Collins, Johnson, Goldsmith, Cowper, Sheridan, Burke, Burns and Blake, with some attention to lesser writers.

Lectures on the life of the times, the Restoration drama, the development of the essay and the novel, and the beginnings of romanticism.

Professor BRONSON

49, 50, 51. *English Literature from 1798 to 1832.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb, De-Quincey, Jane Austen and Scott.

Professor BENEDICT

52, 53, 54. *English Literature from 1832 to 1892.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

A survey course, involving considerable reading in Dickens, Thackeray, George Eliot, Carlyle, Ruskin, Newman, Pater, Tennyson, Browning, Arnold and others, with lectures and discussions.

Professor POTTER

[55, 56, 57. *English Literature from 1832, the Poets.*]

Three hours. Through the year. Elective for students who have passed in 16, 17, 18. Not offered in 1903-04.

First and Second Terms, Tennyson and Browning; Third Term, Mrs. Browning, Arnold, Swinburne, Rossetti, Morris and others.

Professor CROSBY

61, 62, 63. *American Literature.*

Three hours. Through the year. Elective for students who have passed in 16, 17, 18.

The colonial and national periods of American literature, and a comparative view of American and English literature during three centuries; with occasional lectures on literary criticism, as an assistance in making weekly reports on required reading.

Professor SEARS

64, 65, 66. *Seminary in English Literature.*

Three hours. Through the year. Elective for Graduates, and for Seniors who have passed with credit in two or more courses in English literature. Number of members limited to ten.

In 1903-04, the work will consist of studies in the historical development of English verse and of English prose style.

Professor BRONSON

[X. English Literature and Language, continued.]

73, 74, 75. *Methods of Teaching English.*

One hour. Through the year. Elective for Seniors and Graduates who intend to teach English.

Discussion of methods. Exercises in criticism. Special reports.

Professor DAMON (First and Second Terms).

Professor BRONSON (Third Term).

XI. GERMANIC LANGUAGES AND LITERATURES

GERMAN

1, 2, 3. *Introductory Course.*

Three hours. Through the year. Required of all students not presenting German for admission.

Reading from the first; grammar; composition; dictation; sight reading. Selections in prose and poetry from standard authors.

Messrs. NORRIS, ASHLEY and WESTCOTT

24, 25, 26. *Intermediate Course.*

Three hours. Through the year. Required of all Freshmen presenting elementary German for admission.

Selected works of classical and modern authors. Study of syntax based upon the text.

Mr. NORRIS

4, 6, 8. *Drama of the Classic Period.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Lessing, Schiller, Goethe. Two dramas of each author. Recommended to the general student of German. An introduction to the best literature, including some study of the language.

Professor JONAS

5, 7, 9. *Modern Prose.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 3.

Varies in details from year to year. Representative pieces by the best nineteenth century authors in history, biography, legend and fiction. Valuable for students using German sources in other subjects. Sight reading a prominent feature. Parallel to 4, 6, 8.

Professor JONAS

[XI. Germanic Languages and Literatures, continued.]

34, 35, 36. *Advanced Course in Standard Authors.*

Three hours. Through the year. Elective for students who have passed in 24, 25, 26 and for those presenting advanced German for admission.

Selections from the dramas of Lessing, Schiller, and Goethe. Schiller's *Geschichte des Dreissigjährigen Kriegs*, Goethe's *Dichtung und Wahrheit*, etc.

Mr. NORRIS

40, 41, 42. *Composition.*

One hour. Through the year. Elective only for students pursuing the regular courses of the second or third year in German, and for those who have passed in 48.

Most appropriately taken in connection with courses 4, 6, 8 or 5, 7, 9. Hours for conversation are appointed.

Professor JONAS

[43, 44, 45. *Advanced Composition.*]

One hour. Through the year. Elective for students who have passed in 42 and who are pursuing or have completed third year courses. Not offered in 1903-04.

Professor JONAS

[46, 47, 48. *German Masterpieces I.*]

Three hours. Through the year. Elective for students who have passed in 8 or 36. Not offered in 1903-04. To be offered in 1904-05.

Goethe's *Faust*, Parts I. and II., with a glance at recent dramas of kindred interest. With 49, 50, 51 presents the productions of the great German writers which deal with important psychological and moral problems.

Professor CROWELL

49, 50, 51. *German Masterpieces II.*

Three hours. Through the year. Elective for students who have passed in 8 or 36. Not to be offered in 1904-05.

Wolfram von Eschenbach's *Parzival*, Goethe's *Egmont*, Schiller's *Wallenstein*, Lessing's *Nathan der Weise*.

Professor CROWELL

16, 17, 18. *German Literature.*

Three hours. Through the year. Elective for students who have passed in 36, 48 or 51.

A three years' course in literature covering the principal literary movements in Germany from the earliest times to the present. Lectures, reports on assigned topics, extended reading. Subject for 1903-04: German literature from the fourth to the eighteenth century.

Professor JONAS

[XI. Germanic Languages and Literatures, continued.]

10, 11, 12. *Middle High German.*

Three hours. Through the year. Elective for students who have passed in 18, 48 or 51. Not to be offered in 1904-05.

Paul's *Mittelhochdeutsche Grammatik*. *Das Nibelungenlied*, Hartmann von Aue's *Der arme Heinrich*, Wolfram von Eschenbach's *Parzival*, lyrics of Walther von der Vogelweide.

Professor CROWELL

28, 29, 30. *Germanic Mythology.*

One hour. Through the year. Elective for Juniors, Seniors and Graduates. Not to be offered in 1904-05.

Ancient Germanic beliefs and superstitions as to the soul, spirits, demons, and gods. Discussions based on E. Mogk's *Germanische Mythologie*.

Professor CROWELL

[31, 32, 33. *Germanic Philology.*]

One hour. Through the year. Elective for Graduates. Not offered in 1903-04. To be offered in 1904-05.

Professor CROWELL

[52, 53, 54. *German Poetry.*]

Three hours. Through the year. Elective for students who have passed in 48 or 51. Not offered in 1903-04.

Comparative study of representative poems. First Term, epics; Second Term, lyrics; Third Term, ballads.

Professor JONAS

[61, 62, 63. *Research in German Literature.*]

Three hours. Six hours of attendance in the Seminary Library. Through the year. Elective for students who have passed in 18 or 48 or 51. Not offered in 1903-04.

Investigation of problems specially assigned; themes and reports.

Professor CROWELL

OLD NORSE

1, 2, 3. *Old Norse.*

Two hours. Through the year. Elective for Graduates. Not to be offered in 1904-05.

Holthausen's *Altisländisches Elementarbuch*, Wilken's *Prosaische Edda*, *Die Lieder der Edda*, edited by Sijmons and Gering. Students electing Old Norse should also take Germanic Mythology.

Professor CROWELL

GOTHIC

[1, 2, 3. *Gothic.*]

Two hours. Through the year. Elective for Graduates. Not offered in 1903-04. To be offered in 1904-05.

Professor CROWELL

XII. GREEK LITERATURE AND HISTORY

A, B, C. *Elementary.*

Three hours. Through the year.

For the benefit of those who have not taken Greek before entering college. Aims to cover, with mature students, as much as possible of the entrance requirements in Greek. Such students should be able to make sufficient progress during the academic year in reading Xenophon to be able, by private study during the following long vacation, to complete four books of the *Anabasis* before the beginning of the next academic year. They may then take up with the Freshman class the reading of the regular prose Greek, and, by additional study, complete before the following spring term the entrance requirements in Homer, and thus be enabled to continue with the Freshman class in Homer also.

1. *Lysias.*

Three hours. First Term. Elective for students who presented elementary and advanced Greek for entrance, or who have taken Greek A, B, C and the additional work indicated above.

Select orations and practice in sight reading.

Professors MANATT and ALLINSON

2. *Plato.*

Three hours. Second Term. Elective for students who have taken Greek 1 or its equivalent.

Plato's *Apology* and *Crito*, with other selections for sight reading.

Professors MANATT and ALLINSON

3. *Homer.*

Three hours. Third Term. Elective for students who have taken Greek 1 and 2 or equivalents.

The *Odyssey*, four books, rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research.

Professors MANATT and ALLINSON

[46. *Greek Life.*]

Three hours. First Term. Elective for Freshmen and Sophomores. Not offered in 1903-04.

A study of the private and public life of the Greeks in the light of their literature and monuments. Syllabus, lectures and prescribed reading, with frequent reports, written tests and a thesis. No knowledge of Greek or Latin required. The course is continued in the Second and Third Terms as Latin 46, 47. The three terms together constitute the course called History of Greek and Roman Life and Institutions.

Professor MANATT

[XII. Greek Literature and History, continued.]

47. *Greek Literature.*

Three hours. First Term. Elective for Freshmen and Sophomores.

A brief history of the literature of the Greeks from Homer to Theocritus, together with study of the masterpieces in the best English translations. No knowledge of Greek or Latin required.

Professor MANATT

NOTE: This course is continued in the Second and Third Terms as Latin 48, Philology (Indo-European) 1. The three terms together constitute the course in Greek and Roman Literature and History of Language, and take the place of Greek 46, Latin 46, 47.

4. *Greek Lyric Poets.*

Three hours. First Term. Elective for Sophomores.

The chief remains of Greek lyric poetry from Alkman to Timotheos (not including Pindar) will be read.

Professor MANATT

6. *Dramatic Poets.*

Three hours. Second Term. Elective for Sophomores.

Lectures on the Greek drama. The *Prometheus* of Æschylus, The *Clouds* of Aristophanes.

Professor ALLINSON

5. *Lucian.*

Three hours. Third Term. Elective for Sophomores.

Professor ALLINSON

[7, 8, 9. *Historians.*]

Three hours. Through the year. Elective for Juniors and Seniors who have completed 1-6 or equivalent work. Not offered in 1903-04.

Professor MANATT

[10. *Isæus.*]

Three hours. First Term. Elective for students who have completed 1-6 or equivalent work. Not offered in 1903-04.

Professor MANATT

[11. *Demosthenes.*]

Three hours. First Term. Elective for Graduates. Not offered in 1903-04.

Private speeches, selected to illustrate the workings of Athenian institutions.

Professor MANATT

[12. *Demosthenes.*]

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Speeches on the Crown; study of the Macedonian period and of Athenian political life.

Professor MANATT

[XII. Greek Literature and History, continued.]

[13, 14, 15. *Homer.*]

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1903-04.

The *Odyssey*, portions of the *Iliad* and the *Hymns* in the original, the remainder of the poems in translation.

Professor MANATT

[16. *Plato and Æschylus.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Republic, book x; selections from books i-ix.—*Agamemnon*.

Professor ALLINSON

45. *The Drama.*

Three hours. First Term. Elective for Juniors and Seniors.

The *Medea* of Euripides and the *Frogs* of Aristophanes; with rapid reading of one play of Æschylus for literary criticism.

Professor ALLINSON

17. *Homer.*

Three hours. Second Term. Elective for Juniors and Seniors.

Advanced course in the *Iliad* intended to serve as an introduction to prehistoric archæology and a preparation for teaching Homer. It covers the ground of the Foster Premium examination.

Professor MANATT

18. *Pindar and Bacchylides.*

Three hours. Third Term. Elective for Juniors and Seniors.

Professor MANATT

23, 24. *Modern Greek.*

One hour. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Professor MANATT

[28. *Lucian.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Professor ALLINSON

[44. *Homer.*]

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Professor MANATT

43, 47. *Greek Composition.*

One hour. Second and Third Terms. Elective for Sophomores, Juniors and Seniors.

Professor ALLINSON

[XII. Greek Literature and History, continued.]

[25, 26. *Thucydides*.]

One two-hour session weekly. First and Second Terms. Elective for Graduates and approved Seniors. Not offered in 1903-04.

Professor MANATT

[32. *Attic Orators*.]

Two hours. First Term. Elective for Graduates and approved Seniors. Not offered in 1903-04.

Isæus. Greek historical inscriptions.

Professor MANATT

34, 35, 36. *Greek Seminary*.

One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

First Term, (a) Pindar and Timotheos.

Second Term, (b) Euripides.

Third Term, (a) Bacchylides and Herondas, or (b) Seminary in Comparative Philology. See Philology (Indo-European) 7.

Professor MANATT (a) and Professor ALLINSON (b)

[41, 42. *Homer and Mycenæan Archæology*.]

Two hours. First and Second Terms. Elective for Graduates and approved Seniors. Not offered in 1903-04.

Professor MANATT

Harkness Classical Club. Meetings are held once a month for the reading of papers and for discussion. Arrangements also are made from time to time for public addresses. The membership is open to Graduates and Undergraduates.

XIII. HISTORY

EUROPEAN HISTORY

1. *General Mediæval History of Europe*.

Three hours. First Term. Required of Juniors who are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy.

Professor MUNRO [This year Professor MACDONALD]

2. *General Modern History of Europe*.

Three hours. Second Term. Required of Juniors who are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy.

Professor MUNRO [This year Professor MACDONALD]

[XIII. History, continued.]

NOTE: Courses 1 and 2 give a general survey of the history of western Europe from the time of the barbarian invasions to the close of the Napoleonic wars. The work is based upon a narrative text-book, supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. The elective courses in history are open only to those who have taken or are taking Courses 1 and 2 or their equivalent.

[18. *Spanish History.*]

Three hours. First Term. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Professor MUNRO

[15. *Islam and the Crusades.*]

Three hours. First Term. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Professor MUNRO

11. *Period of the Renaissance.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates. Professor MUNRO [This year Dr. JONES]

3. *Period of the Reformation.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Professor MUNRO [This year Dr. JONES]

16. *French Revolution.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Professor MUNRO [This year Dr. JONES]

40. *European History since 1815.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Professor MUNRO [This year Professor MACDONALD]

[Seminary in European History.]

Not offered in 1903-04.

ENGLISH AND AMERICAN HISTORY

19, 20, 21. *English Constitutional and Political History to 1689.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Special attention is given to the formation of the English constitution, the establishment and growth of the church, the relations with Scotland and Ireland, the Reformation, and the Puritan revolution.

Professor MACDONALD [This year Dr. JONES]

[XIII. History, continued.]

[22, 23, 24. *English Constitutional and Political History since 1689.*]

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Professor MACDONALD

NOTE: Courses 19, 20, 21 and 22, 23, 24 are offered in alternate years.

[25, 26, 27. *American History to 1787.*]

Three hours. Through the year. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

Professor MACDONALD

28, 29, 30. *Constitutional and Political History of the United States since 1787.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Deals particularly with the organization of the national government and its administrative development, slavery, the extension of national territory, the bank controversy, the Civil War, and the reconstruction period.

Professor MACDONALD

NOTE: Courses 25, 26, 27 and 28, 29, 30 are offered in alternate years.

34, 35, 36. *Research Course in English History.*

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates and approved Seniors.

The subjects for 1903-04 are: First Term, Parliamentary reform in the nineteenth century; Second and Third Terms. The relations between England and France during the French Revolution.

Professor MACDONALD and Dr JONES

37, 38, 39. *Research Course in American History.*

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates and approved Seniors.

The subjects for 1903-04 are: First Term, English administrative control of the colonies to 1763; Second Term, Selected topics in the internal history of the colonies between 1689 and 1763.

Professor MACDONALD

[31, 32, 33. *Principles of Historical Criticism and Research.*]

One hour. Through the year. Elective for Graduates. Not offered in 1903-04.

Professor MACDONALD

XIV. MATHEMATICS

3. *Algebra.*

Four hours. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE, MANNING and SLOCUM, Messrs. WINSLOW and CORNELL

1. *Geometry, Solid and Spherical.*

Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professor MANNING, Messrs. PACKARD, WINSLOW and CORNELL

2. *Trigonometry.*

Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who did not present Solid Geometry and Plane Trigonometry for admission.

Professors CLARKE and MANNING, Messrs. CURRIER, WINSLOW and CORNELL

4. *Spherical Trigonometry.*

One hour. First Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 2 and who have not had Spherical Trigonometry.

Mr. PACKARD

5, 6, 7. *Algebra.*

One hour. First Term. Two hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission.

Mr. PACKARD

8. *Determinants and Theory of Equations.*

Three hours. Second Term. Elective for students who have passed in 3 or 5, 6, 7.

Mr. CURRIER

38. *Algebra.*

Six hours. First Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Messrs. CURRIER and PACKARD

39. *Trigonometry, Plane and Spherical.*

Six hours. Second Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professors DAVIS and SLOCUM, Mr. CURRIER

[XIV. Mathematics, continued.]

40. *Analytic Geometry.*

Six hours. Third Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professors DAVIS and SLOCUM, Mr. CURRIER

41. *Differential Calculus.*

Five hours. First Term. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professor DAVIS

42, 43. *Integral Calculus.*

Three hours. Second and Third Terms. Required of candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering.

Professor DAVIS

9, 10. *Analytic Geometry.*

Three hours. First and Second Terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 1, 2 and 3.

Professor DAVIS

[11. *Modern Methods of Analytic Geometry.*]

Three hours. Third Term. Elective for students who have passed in 10. Not offered in 1903-04.

Professor MANNING

30. *Solid Analytic Geometry.*

Three hours. Third Term. Elective for students who have passed in 10.

Professor MANNING

12. *Differential Calculus.*

Three hours. Third Term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have passed in 10.

Professor DAVIS

13. *Integral Calculus.*

Three hours. First Term. Required of candidates for the degree of Civil Engineer, Mechanical Engineer or Bachelor of Science in Electrical Engineering. Elective for students who have passed in 12.

Professor DAVIS

[XIV. Mathematics, continued.]

14. *Applications of the Differential Calculus.*

Three hours. Second Term. Required of candidates for the degree of Civil Engineer, Mechanical Engineer or Bachelor of Science in Electrical Engineering. Elective for students who have passed in 12 and 13.

Professor DAVIS

31. *Applications of the Integral Calculus.*

Three hours. Third Term. Required of candidates for the degree of Civil Engineer or Bachelor of Science in Electrical Engineering. Elective for students who have passed in 13.

Mr. PACKARD

15, 16, 17. *Differential Equations.*

Three hours. Through the year. 15 and 16 are required of candidates for the degree of Bachelor of Science in Electrical Engineering. Elective for students who have passed in 13.

Professor MANNING

18, 19, 20. *General Theory of Curves and Surfaces.*

Three hours. Through the year. Elective for Graduates and approved Seniors.

Professor MANNING

[21, 22, 23. *Theory of Functions.*]

Three hours. Through the year. Elective for Graduates and approved Seniors. Not offered in 1903-04.

Professor MANNING

24, 25, 26. *Differential Equations, advanced.*

Three hours. Through the year. Elective for Graduates who have passed in 23.

Professor MANNING

[27, 28, 29. *Advanced Algebra.*]

Three hours. Through the year. Elective for Graduates and for approved Seniors. Not offered in 1903-04.

Including substitutions and the Galois theory of equations.

Professor MANNING

[32, 33, 34. *Foundations of Geometry, Non-Euclidean Geometry and Hyper-Space.*]

Three hours. Through the year. Elective for Graduates and for approved Seniors. Not offered in 1903-04.

Professor MANNING

[XIV. Mathematics, continued.]

Two or three of the courses 18-34 are offered each year according to the requirements of the students. For those who have taken them all, other courses can usually be arranged.

NOTE: The mathematical courses should be taken in the following order: 3, 1, 2, 9, 10, 12, 13, 14, 31, 15, 16, 17. Courses 8, 11 and 30 are extra courses and can be taken any time after the Freshman year. Courses 38, 39, 40, 41, 42, 43 are designed for students who are taking or who intend to take engineering courses. Courses 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34 are designed for Graduates.

XV. PHILOLOGY (INDO-EUROPEAN)

Professor ALLINSON

1. *General Introduction to the Study of Language.*

Three hours. Third Term. Elective for Freshmen and Sophomores.

Outline of the history of language. The Indo-European family. Adapted for students of ancient or modern languages. This course is a continuation of Greek 47, Latin 48. The three terms together constitute the course in Greek and Roman literature and History of Language, and take the place of Greek 46, Latin 46, 47.

4, 5, 6. *Sanskrit, elementary.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Whitney's *Grammar*, Lanman's *Reader*. Selections from the *Vedic Hymns*.

7. *Seminary in Comparative Philology.*

One two-hour session weekly. Third Term. Elective for Graduates and approved Seniors.

Intended for advanced students in Greek and Latin.

[10, 11, 12. *Sanskrit, advanced.*]

One hour. Through the year. Elective for students who have passed in 4, 5, 6 or an equivalent. Not offered in 1903-04.

Vedic Hymns and other selections.

XVI. PHILOSOPHY

PHILOSOPHY AND PSYCHOLOGY

NOTE: Some one complete course in this department is required of every candidate for the degree of Bachelor of Arts or Bachelor of Philosophy. By a complete course is understood all that is grouped together as a three-hour course under a single name in the accompanying announcements, provided it consists of a year's work. The courses in Education, however, cannot be taken to satisfy this requirement.

19, 27, 43. *Logic.*

Three hours. Through the year. Elective for Sophomores, Juniors and Seniors.

A study of the aims, methods and limitations of human thinking; a preparation for work in the sciences and in philosophy. First Term, general introduction and formal logic; Second Term, an examination of the principles and methods of the natural sciences; Third Term, a statement of the relations of science to philosophy, giving the philosophical interpretation and criticism of the results of science.

Professor MEIKLEJOHN

2, 3, 4. *Psychology, introductory course.*

Three hours. Through the year. Elective for Juniors.

The main facts and laws of mental life; particular attention to their arrangement in a thorough and comprehensive scientific system, also to their philosophical bearing. The course is thus of value not only because of the immense importance of a knowledge of mental law for practical life, but also as a transition from the special sciences to philosophy.

Professor DELABARRE

20, 21, 22. *Psychology, advanced course.*

Three hours. Through the year. Elective for Seniors and Graduates.

A seminary for the discussion of important and interesting questions in psychology, including the fundamental principles of psychology; the relation between consciousness and brain processes; abnormal and unusual states of consciousness; especially the problems of hypnotism and of psychical research; and other problems if time permits.

Professor DELABARRE

29, 30, 31. *Experimental Psychology, introductory laboratory course.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors and Graduates who have taken or are taking 2, 3, 4.

Description of the main lines and results of experimental research; demonstration of many of them by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement.

Professor DELABARRE and Mr. HALL

[XVI. Philosophy, continued.]

39, 40, 41. *Experimental Psychology, advanced and original laboratory work.*

Through the year. Elective for students who have taken 29, 30, 31. This course may be taken for any number of hours up to six in the case of Undergraduates, or more in the case of Graduates, with double the number of hours of attendance.

The problems investigated vary from year to year according to the interests of instructor and students, and the course may therefore be taken two or more years in succession. The aim is to make original contributions to scientific knowledge in psychology and to publish the results.

Professor DELABARRE and Mr. HALL

8, 9, 10. *History of Philosophy.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

First Term, Greek philosophy; Second Term, mediæval and early modern philosophy; Third Term, recent and contemporary philosophy. The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical, but synthetic and constructive as well.

Professor EVERETT [This year Professor COLVIN]

5, 23. *Theoretical Ethics.*

Three hours. First and Second Terms. Elective for Seniors and Graduates.

Intended to aid in mastering the fundamental problems of life and character. First Term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems; Second Term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct.

Professor EVERETT [This year Professor COLVIN]

44. *Practical Ethics.*

Three hours. Third Term. Elective for Seniors and Graduates.

Intended to apply ethical theory to the life of the individual, the family and the state. Discussion of current problems, personal, industrial and social, from the ethical standpoint.

President FAUNCE

[26. *Outlines of the History of Religion.*]

Two hours. Second Term. Elective for Seniors and Graduates. Not offered in 1903-04.

Professor EVERETT

[XVI. Philosophy, continued.]

24. *Philosophy of Religion.*

Three hours. Third Term. Elective for Seniors and Graduates who have had previous philosophical training.

An investigation of the ultimate grounds of religious belief.

Professor EVERETT [This year Professor COLVIN]

14, 28, 42. *Philosophical Seminary.*

Three hours Through the year. Elective for Graduates.

Lectures, papers and discussions on the more difficult problems of philosophy. Subject for 1903-04: Historical and critical study of Idealism as epistemological theory.

Professor EVERETT [This year Professor COLVIN]

[17. *Discussions in Casuistry.*]

One hour. Second Term. Elective for Seniors and Graduates. Not offered in 1903-04.

Professor MEIKLEJOHN

33, 34, 35. *Kantian and Post-Kantian Philosophy.*

Three hours. Through the year. Elective for Seniors who have taken Philosophy 8, 9, 10 and for Graduates.

Kant's *Critique of Pure Reason* will be studied as the source of German Rationalism. The same line of thought will be traced in the *Critique of Practical Reason*, and in the works of Fichte, Schelling and Hegel.

Professor MEIKLEJOHN

6, 7, 11. *Advanced Logic.*

Three hours. Through the year. Elective for Graduates.

A seminary for the discussion of the more difficult problems of logic. Reading, papers and discussions.

Professor MEIKLEJOHN

Philosophical Club. A Philosophical Club, consisting of Graduate, Senior and Junior students of Philosophy, meets once a month for the reading of papers and for free discussion. Though the organization is primarily in the hands of the students, the officers of instruction in the philosophical department as well as other persons interested in philosophy usually attend.

EDUCATION

Professor JACOBS

1. *History of Educational Theories and Institutions.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Education among the Greeks and Romans; rise and constitution of Universities; Erasmus and the Humanists; Comenius and the Realists; Rousseau and the Naturalists; psychologizing education, Pestalozzi, Froebel, Herbart.

[XVI. Philosophy, continued.]

2. *Critical Study of Modern Education.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Present theories as growing out of past theories are discussed and the validity of their claims considered. The effectiveness of present American systems is compared with that of past systems, and that of foreign countries. Especial attention is given to the influences of education upon the state and society, and to well organized experiments now being conducted. The problems are stated which an adequate theory of education must solve.

3. *Fundamental Principles of Education.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

The meaning and aim of education; the sequence and coördination of studies; the principles of instruction as derived from psychology; apperception; the steps in method; the use of the type in instruction; the training of the will and the principles of moral education.

NOTE: Courses 1, 2 and 3 treat of education in its relation to the individual, and to the social and political whole, and their interest is therefore not limited to those who intend to teach. At the same time they form an introduction to the courses which follow. Those who intend to teach are recommended to elect these courses during the Junior year.

4. *Psychology of Education.*

Three hours. First Term. Elective for Seniors and Graduates.

The principles of psychology applied to method in education and instruction. Mind is considered from the point of view of growth and development. Directions are pointed out in which pupil and teacher may utilize a knowledge of the more fundamental activities of mind. While an extended acquaintance with psychology is useful it is not necessary to the profitable pursuit of the course.

5. *Hygiene of Education.*

Three hours. Second Term. Elective for Seniors and Graduates.

The hygiene of growth. Play and fatigue. Sight and hearing. School diseases. School architecture. Warming, ventilating and lighting. Sanitation. School furniture. School programs.

6. *Practical Introduction to Teaching.*

Three hours. Third Term. Elective for Seniors and Graduates.

The method of the recitation. Management and discipline of classes. Observation of good teaching. Practical applications in method.

[XVI. Philosophy, continued.]

NOTE: *Teacher's Certificates.* The above courses, 1-6, cover the requirements in professional studies for certificates of the First Grade in all states except where practice-teaching or experience is demanded. In Rhode Island *the holding of a certificate is required of all teachers* in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed the above courses and hold a college degree. Due credit is also given for separate courses.

NOTE: Those who have completed courses 1-6 and hold a college degree are eligible to appointment in the Primary and Grammar Training Schools of Providence, under especially favorable conditions.

7, 8, 9. *Methods in Secondary School Studies and the Organization, Equipment and Management of Secondary Schools.*

Three hours. Two hours of class-room attendance. Required of student-teachers. Elective for Graduates and experienced teachers. Each term may be elected separately.

Importance and meaning of secondary school studies and their organization into a curriculum; method as applied to each subject and the resources at the command of the teacher; such a view of the work of the school as is necessary to the teacher in order that he may understand the whole and coördinate his work with the whole. The following studies receive especial attention:

First Term, Latin and Modern Languages; Second Term, History and English; Third Term, Science and Mathematics.

For explanation of the work of student-teachers see Index.

10, 11, 12. *Training in Practical Teaching.*

Three hours. Through the year.

Practice teaching. Control and conduct of classes, plans for single lessons, and for "method-wholes," observation of the work of experienced teachers, reports, private conferences. Opportunity for practice teaching in the High Schools of the city is given to capable graduate students, and in the Grammar Schools to a limited number of Seniors preparing to teach in the grades or to fill places as principals or superintendents

The practice teaching is done under the following Supervising Teachers: Charles E. Dennis, Ph. D., *Latin*; Victor Frazee, A. M., *History*; Charles E. Tilley, A. M., *Physics and Chemistry*; Grace H. Parker, A. B., *Natural Science*; Horace E. Jacobs, A. M., *Mathematics and Latin*; Harriet P. Fuller, A. B., *Latin*; Florence J. Whiting, A. M., *Physics and Chemistry*; Isaac O. Winslow, A. M., *Grammar Grades*; Mary Williams, *Eighth Grade*.

[XVI. Philosophy, continued.]

13, 14, 15. *Seminary in Educational Problems.*

Three hours. Two hours of class-room attendance. Required of student teachers. Elective for Graduates and experienced Teachers. Each term may be elected separately.

The seminary meets on Saturday mornings from ten to twelve. Reviews and discussions of recent publications; reports on special studies undertaken by members. The chief subjects of the course will vary from year to year. For the year 1903-04. the subjects will be: First Term, Imitation and its function in education; Second Term, Social phases of education; Third Term, The making of our middle schools, with especial emphasis upon Rhode Island.

XVII. PHYSICS

1, 2, 4. *Elementary Physics.*

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors and others who have passed in Mathematics 1, 2, 3.

First Term, kinematics and dynamics; Second Term, molecular physics; Third Term, electricity. Lectures illustrated by experiments and the lantern. Weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics; presupposes only a good knowledge of elementary mathematics. The entire course is a unit, setting forth the principles of modern physics. It is sufficiently broad to be a commentary upon whatever preliminary training in physics the student may have had, and to serve as a theoretical introduction to the professional courses.

Professor BARUS

[32 *Optics*].

Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1. Not offered in 1903-04.

Professor BARUS

NOTE: Courses 32, 37 and 38, consist of lectures on the elementary principles of Optics, Acoustics and Heat. They alternate, in turn, with 2, for the convenience of the other courses.

[37. *Acoustics*.]

Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1. Not offered in 1903-04.

Professor BARUS

[38. *Heat*.]

Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in 1. Not offered in 1903-04.

Professor BARUS

[XVII. Physics, continued.]

NOTE: Graduates attending courses 1, 2, 4, 32, 37, 38, are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniell's principles of general physics.

5, 9, 10. *Physical Measurements.*

Three hours. Through the year. Elective for students who have passed in 1, 2, 4.

Six hours in the laboratory. Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems.

Professor PALMER

13, 14, 16. *Mathematical Treatment of Dynamical Problems.*

Three hours. Through the year. Elective for Seniors and Graduates who have passed in 10 and Mathematics 16.

Lectures. First Term, discussion of the general principles of dynamics and the development of the general equations of motion; Second and Third Terms, application of these principles to special problems in thermodynamics and hydrodynamics.

Professor PALMER

17, 18, 19. *Laboratory Course, advanced.*

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have passed in 10.

For those who are already familiar with the use of physical apparatus and are capable of carrying on investigations more or less independently. Special problems and reference to original sources for methods of solution.

Professors BARUS, PALMER and WATSON

20, 21, 48. *Harmonic Analysis.*

Three hours. Through the year. Elective for Seniors and Graduates who have passed in 1, 2, 4 and Mathematics 14, 15.

Importance of Fourier's method shown by examples taken from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions and Lamé functions.

Professor BARUS

22. *Behavior of Matter through Long Ranges of Temperature.*

Elective for Graduates.

Original research. Investigation of accurate methods and data in absolute pyrometry; determination of the high temperature constant of non-volatile bodies with a view to the elucidation of fundamental questions in the physics of the earth's crust.

Professor BARUS

[XVII. Physics, continued.]

NOTE: Courses 22 to 25, inclusive, occupy more or less time a week, according to the requirements of the students. Other courses in original research are offered to suit the special needs or training of advanced students. The order of interchange between 13, 14, 16, and 26, 27, 28, and between 20, 21, 48, and 29, 30, 31, is not fixed. The preference of the applicants for instruction will be regarded in determining which shall be given.

23. *Behavior of Matter through Long Ranges of High Pressure.*

Elective for Graduates.

Original research. Thermodynamics of the change of state from solid to liquid, due either to fusion or to solution, with especial reference to the continuity of solid and liquid, and to the location of the lower critical temperature.

Professor BARUS

24. *Absolute Viscosity of Solids as Compared with Liquids and Gases.*

Elective for Graduates.

Original research. Investigation of absolute data for the viscosity of solids.

Professor BARUS

25. *Physical Properties of the Iron Carburets.*

Elective for Graduates.

Original research. A consideration of the physical properties of iron, steel and cast iron with reference to their bearing on metallurgical and electro-technical problems.

Professor BARUS

26, 27, 28. *Mathematical Theory of Electricity and Magnetism.*

Three hours. Through the year. Elective for Graduates and Seniors who have passed in 10 and Mathematics 16.

Lectures. Includes a discussion of the more important problems of electrical science.

Professor PALMER

29, 30, 31. *Physics, advanced.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have passed in Mathematics 12, 13, and 14.

Lectures on dynamics, potential, elastics, hydrostatics, hydro-dynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermoelectrics, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics and thermo-dynamics. Completed in two years. Alternating, if desirable, with 20, 21, 48.

Professor BARUS

[XVII. Physics, continued.]

NOTE: Candidates for the degree of Master of Arts with a major in physics will be held responsible for at least one of the advanced courses in theoretical physics. The requirements for non-resident students with a minor in physics are quite as advanced as for students in residence with a major in physics. The department is able to offer every reasonable facility both for research work and for the study of the higher problems in physics; it is not able to offer much encouragement to those wishing to take degrees not in residence.

36, 39. *Precision Measurements in Photometry, Electricity and Magnetism.*

Three hours. Six hours in the laboratory. First and Second Terms. Elective for students who have passed in 10 and Mathematics 13.

Professor PALMER

46. *Applied Electro-Chemistry.*

Three hours. Six hours in the laboratory. Third Term. Elective for students who have passed in 39 and 15.

Professor PALMER

ELECTRICAL ENGINEERING

Professor WATSON

11. *Elementary.*

Three hours. First Term. Elective for students who have passed in 4.

Definite instruction in methods of generating and utilizing electric currents; introductory to the technical courses.

12. *Dynamo-Electric Machinery.*

Three hours. Two hours of recitation, and two hours in the laboratory. Second Term. Elective for students who have passed in 11, and who have taken or are taking 5, 9, 10, and Mathematics 12.

Technical study of theory and calculations for dynamo-electric machinery.

15. *Laboratory.*

Three hours. One hour of recitation and four hours in the laboratory. Third Term. Elective for students who have passed in 11 and 12.

Practical methods of operating and testing various sizes and types of standard dynamos.

33. *Periodic or Alternating Currents of Electricity.*

Three hours. First Term. Elective for students who have passed in 15, and who have taken or are taking Mathematics 15.

A mathematical and graphical treatment.

34. *Utilization of Alternating Currents.*

Three hours. Second Term. Elective for students who have passed in 33

[XVII. Physics, continued.]

35. *Laboratory, Alternating Current Machinery.*

Three hours. Six hours in the laboratory. Third Term. Elective for students who have passed in 34.

Testing of apparatus. The construction of new apparatus may be included, in the case of suitably qualified students, as a minor portion of this course.

41. *Telephone and Telegraph Engineering.*

Three hours. Two hours of recitation and one hour in the laboratory. First Term. Elective only for candidates for the degree of Bachelor of Science in Electrical Engineering.

The laboratory work is the construction of electrical apparatus. May be taken with 11.

40. *Development and Scope of Industrial Electricity.*

Three hours. Second Term.

May be taken with 12.

42. *Design and Calculation of Direct Current Machinery.*

Three hours. Third Term.

Time spent in actual drawing will be counted like laboratory work. May be taken with 15.

43. *Electric Railway Engineering.*

Three hours. First Term. Elective for students who have passed in 15.

44. *Design and Calculation of Alternating Current Machinery.*

Three hours. Second Term. Elective for students who have passed in 33.

45. *Central Station Design, Equipment and Systems of Distribution.*

Three hours. Second Term. Elective for students who have passed in 33.

47. *Specific Engineering Problems.*

Three hours. Third Term.

Reading and discussion. Seminary method.

XVIII. POLITICAL ECONOMY

The courses in this department, other than 12, are open only to those students who have passed in Social Science 12 (first term), Political Science 12 (second term), and Political Economy 12 (third term), which together constitute a single course introductory to the departments of Social and Political Science and Political Economy.

12. *Political Economy, elementary.*

Three hours. Third Term. Elective for Sophomores, Juniors and Seniors who have passed in Social Science 12 and Political Science 12.

Professor GARDNER

NOTE: Courses 6, 7, 16, 13, 14, 18, will probably not be given in 1904-05. Students intending to take only one course in this department are advised to take 1, 2, 3. Students intending to pursue political economy are advised to take the required history in their Sophomore year.

1, 2, 3. *General Economics.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

First Term, the development and significance of the more important elements in the existing form of industrial organization. The following are among the topics treated: The independence and responsibility of the individual, private property, freedom in the choice of industry, freedom of exchange and contract, competition, speculation, capitalistic control of industry, the tendency to industrial combination, money, and credit. The origin and significance of modern industrial organization is made clear by a historical review of the industrial systems of the chief nations of the ancient and modern world. Second Term, the principles governing the distribution of wealth under the existing form of economic organization. Third Term, some of the more important economic problems, such as the tariff, the regulation of the conditions of employment, particularly regulations affecting hours of labor and the employment of women and children, trade unions, arbitration and conciliation, coöperation and profit sharing, socialism, the single tax, the railway problem, governmental ownership and management of monopolies, and the regulation of industrial combination.

Professor GARDNER (First and Second Terms), Dr. WILLETT (Third Term).

19. *Industrial History of England.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Professor GARDNER

[XVIII. Political Economy, continued.]

20. *Industrial History of the United States.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Professor GARDNER

21. *Existing Industrial Conditions in the United States.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Professor GARDNER

NOTE: 19, 20 and 21 form a consecutive course.

13, 14, 18. *History and Present Condition of Economic Thought.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

A study of the development of economic thought since the Middle Ages, and of the prevailing economic theories of the present time. Chief attention is paid to the contributions made by the few great writers. Special emphasis is laid on the relations between economic thought and economic life and institutions.

Dr. WILLETT

6, 7. *Money and Banking.*

Three hours. First and Second Terms. Elective for Juniors, Seniors and Graduates.

A discussion of the principles of money and banking and a description of the monetary and banking systems of the chief nations, with special reference to the United States.

Professor GARDNER

16. *Industrial Corporations, their History, Significance and Regulation.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Special attention is given to railways and other quasi-public corporations and to the recent tendency towards industrial combinations.

Professor GARDNER

22, 23, 24. *Investigation of Special Subjects.*

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors and Graduates. Each term may be elected separately.

Laboratory courses in methods of gathering and handling^{ing} data in the study of economic or social or political problems and conditions. Each student will be assigned a subject for investigation to be worked up under the direction and supervision of the instructor. The number of students who can be accommodated is limited, and preference is given to students who are taking other courses in economics.

Professor GARDNER and Dr. WILLETT

XIX. ROMAN LITERATURE AND HISTORY

1. *Livy.*

Three hours. First Term. Elective for students who presented elementary and advanced Latin for admission.

While grammatical study and literary criticism receive attention in this as in the other courses of the Freshman year, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of Roman history.

Professor HARKNESS and Mr. PAINE

2. *Cicero's Letters.*

Three hours. Second Term. Elective for students who presented elementary and advanced Latin for admission.

Professor HARKNESS and Mr. PAINE

3. *Tacitus's Germania and Agricola.*

Three hours. Third Term. Elective for students who presented elementary and advanced Latin for admission.

Professor HARKNESS and Mr. PAINE

[46, 47. *Roman Life.*]

Three hours. Second and Third Terms. Elective for Freshmen and Sophomores. Not offered in 1903-04.

The private and public life of the Romans based on the monuments and literature. Intended to give a comprehensive view of the general civilization of Rome. Lectures supplemented by reading and reports. No knowledge of Greek or Latin is required.

Professor GREENE

NOTE: This course is a continuation of Greek 46. The three terms together constitute the course called History of Greek and Roman Life and Institutions.

48. *Roman Literature.*

Three hours. Second Term. Elective for Freshmen and Sophomores.

A brief history of Roman Literature. Some of the most important and characteristic works are studied in English translations. No knowledge of Latin is required.

Professor HARKNESS

NOTE: This course follows Greek 47 and is continued in the third term by Philology (Indo-European) 1. The three terms together constitute the course in Greek and Roman Literature and History of Language, and take the place of Greek 46, Latin 46, 47.

[XIX. Roman Literature and History, continued.]

4. *Horace's Odes and Epodes.*

Three hours. First Term. Elective for Sophomores.

In this as in the other Sophomore courses, the literary side of the study is made prominent. A part of the time is occupied with a critical study of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

MR. PAINE

5. *Catullus, Tibullus and Propertius.*

Three hours. Second Term. Elective for Sophomores.

MR. PAINE

6. *Satires of Horace and Juvenal.*

Three hours. Third Term. Elective for Sophomores.

PROFESSOR HARKNESS

7. *Origin of Latin Poetry and Development of the Drama.*

Three hours. First Term. Elective for Juniors and Seniors.

Readings from Plautus and Terence.

PROFESSOR HARKNESS

8. *Poetry of the Republic, continued, and Poetry of the Augustan Age.*

Three hours. Second Term. Elective for Juniors and Seniors.

Readings from Lucretius and other authors of this period.

PROFESSOR HARKNESS

9. *Poetry of the Silver Age.*

Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

[11. *Prose of the Republican Period.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Development of oratory; reading from specimens of early Latin, from Cicero's *Brutus*, and from Quintilian.

PROFESSOR HARKNESS

NOTE: The advanced courses open to Juniors and Seniors relate to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman literature. Lectures are given on the lives and writings of the authors, and characteristic selections are read. Topics in literary history and criticism are assigned to members of the class for special study and investigation.

[XIX. Roman Literature and History, continued.]

[12. *Prose of the Augustan Age.*]

Three hours. Second Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Development of historical writing; readings from the historians.

Professor HARKNESS

[13. *Prose of the Silver Age.*]

Three hours. Third Term. Elective for Juniors and Seniors. Not offered in 1903-04.

Roman philosophers; readings from Seneca and other authors of this period.

Professor HARKNESS

10, 14, 15. *Private Life and Antiquities of Rome.*

One hour. Through the year. Elective for Juniors, Seniors and Graduates.

Professor HARKNESS

16, 17, 18. *Petronius, Pliny the Younger, Martial.*

One hour. Through the year. Elective for Juniors, Seniors and Graduates.

Professor HARKNESS

19, 20, 21. *Epigraphy.*

Two hours. Through the year. Elective for Graduates and qualified Undergraduates.

Professor HARKNESS

[22, 23, 24. *Palæography and Textual Criticism.*]

Two hours. Through the year. Elective for Graduates and qualified Undergraduates. Not offered in 1903-04.

Professor HARKNESS

37, 38, 39. *Latin Composition.*

One hour. Through the year. Elective for Sophomores, Juniors and Seniors.

Mr. PAINE

40, 41, 42. *Seminary in Latin.*

Two hours. Through the year. Elective for Graduates.

Roman provincial administration. Reading of Cicero's orations against Verres.

Professor HARKNESS

Harkness Classical Club. Meetings are held once a month for the reading of papers and for discussion. Arrangements also are made from time to time for public addresses. The membership is open to Graduates and Undergraduates.

XX. ROMANCE LANGUAGES AND LITERATURES

FRENCH

A, B, C. *Elementary French.*

Three hours. Through the year. Required of all students who did not present French for admission.

Grammar, composition, dictation, translation of selections from modern authors into idiomatic English. The equivalent of the French required for admission.

MR. HUNKINS

1, 2, 3. *Language.*

Three hours. Through the year. Required of all Freshmen who presented elementary French for admission.

A thorough study of French syntax, translation of modern authors, written and oral re-translation into French of exercises based upon the texts read, dictation. Intended to give students a large working vocabulary.

Professor JOHNSON, Messrs. WILLIAMSON and HUNKINS

4, 5, 6. *Literature.*

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3, or who presented advanced French for admission.

First Term, Romanticism; Hugo, Lamartine, De Musset. Second Term, Realism and Naturalism; Balzac, Daudet, Augier, Zola. Third Term, The literature of to-day. A wide course of reading in nineteenth century authors. Abstracts (in French) of works read outside the class. Sight reading a prominent feature.

Professor JOHNSON

[13, 14, 15. *Practice in Writing and Speaking.*]

Three hours. Through the year. Elective for students who have passed with credit in 1, 2, 3, or who presented advanced French for admission. Not offered in 1903-04.

Intended more especially for those preparing to teach. A large amount of set and free composition, abstracts (in French) of assigned reading, dictation, conversation, oral translation into French of an English novel, abstracts of French read in class by the instructor.

Professor JOHNSON

[16, 17, 18. *Old French.*]

Three hours. Through the year. Elective for Seniors and Graduates. Not offered in 1903-04.

The elements of Romance Philology and an introduction to the literature of the Middle Ages in France.

MR. MORSE

[XX. Romance Languages and Literatures, continued.]

37, 38, 39. *French Drama.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates who have passed with credit in French 1, 2, 3.

From Corneille to Rostand, with special study of its classical and romantic sources and influences.

Professor LANGDON

ITALIAN

1, 2, 3. *Modern Italian.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

Grammar, composition, conversation, and rapid translation of modern authors.

Professor LANGDON

COMPARATIVE LITERATURE

1, 2, 3. *Dante in English.*

Three hours. Through the year. Elective for Juniors, Seniors and Graduates.

A study of the whole of the *Divina Commedia* in English in the light of modern thought and in connection with the great world-poems, *Job*, the *Iliad-Odyssey*, the *Æneid*, *Hamlet*, *Paradise Lost*, *Faust* and *The Ring and the Book*. An introduction to a study of comparative literature by means of the best available translations.

Professor LANGDON

SPANISH

1, 2, 3. *Modern Spanish.*

Three hours. Through the year. Elective for Juniors and for Sophomores not electing more than one other modern foreign language.

Grammar, conversation, composition, writing from dictation, and rapid reading.

Professor JOHNSON

4, 5, 6. *Language and Literature.*

Three hours. Through the year. Elective for those who have passed with credit in 1, 2, 3.

First Term, Valdés's *José*. Second Term, Galdos's *Dona Perfecta*. Third Term, Gil y Zárate's *Guzmán el Bueno*, Echegaray's *O Locura ó Santidad*, selections from *Don Quijote*. Daily exercises in composition and conversation. Reports (in Spanish) of outside reading.

Professor JOHNSON

XXI. SOCIAL AND POLITICAL SCIENCE

The courses in this department, other than 12, are open only to those students who have passed in Social Science 12 (first term), Political Science 12 (second term), and Political Economy 12 (third term), which together constitute a single course introductory to the departments of Social and Political Science and Political Economy.

SOCIAL SCIENCE

12. *Elementary Course.*

Three hours. First Term. Elective for Sophomores, Juniors and Seniors.

Professor WILSON

10. *Social Institutions.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates. Development, forms, importance, as shown in the family, church, etc.

Professor DEALEY

2. *Social Problems and Conditions.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates. Relates to charity, criminology, etc.

Professor WILSON

3. *Social Problems and Conditions.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Special study of important social questions.

Professor WILSON

4. *Social Philosophy.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates. Aims and ideals in social life, social well-being.

Professor DEALEY

1. *The Principles of Sociology.*

Three hours. First Term. Elective for approved Undergraduates and for Graduates.

Nature of society. Social forces and environment.

Professor WILSON

5. *Development of Social Theory.*

Three hours. Second Term. Elective for approved Undergraduates and for Graduates.

Traces important theories, ancient and modern, in regard to social conditions and development.

Professor DEALEY

[XXI. Social and Political Science, continued.]

11. *Demography.*

Three hours. Third Term. Elective for approved Undergraduates and for Graduates.

Dispersion of races. Social study of race characteristics. Emigration, immigration, etc.

Professor WILSON

NOTE: With these courses are correlated courses 22, 23, 24, offered by the department of Political Economy, which see.

7, 8, 9. *Current Social Theory and Practice.*

One hour. Through the year. Elective for Graduates.

Professors WILSON and DEALEY

POLITICAL SCIENCE

12. *Elementary.*

Three hours. Second Term. Elective for Sophomores, Juniors and Seniors who have passed in Social Science 12.

Professor DEALEY

3. *International Law and Relations.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Professor WILSON

7. *Diplomacy and World Politics.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

Art and practice of international negotiation with particular reference to foreign diplomacy.

Professor WILSON

11. *Diplomacy and World Politics.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

American development and problems.

Professor WILSON

4. *United States Government.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

Constitution, organization, powers and methods of our national system of government.

Professor DEALEY

2. *Comparative Study of Constitutions.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

With special reference to the constitutions of Germany, France, Great Britain and Switzerland.

Professor DEALEY

[XXI. Social and Political Science, continued.]

1. *The State.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.
Origin, forms, development, functions and institutions of the state.

Professor DEALEY

15. *Local and Municipal Government.*

Three hours. Second Term. Elective for approved Undergraduates
and for Graduates.

Organization and functions of the states and cities of the United States.

Professor DEALEY

NOTE: This course is supplemented by course 35 on Municipal Improvements, offered by the department of Civil Engineering, which see.

16. *Constitutional Law.*

Three hours. Second Term. Elective for approved Undergraduates
and for Graduates.

Principles and development with special reference to the Constitution
of the United States.

Professor DEALEY

6. *Roman Law.*

Three hours. Third Term. Elective for approved Undergraduates
and for Graduates.

The influence of Roman law on political institutions.

Professor DEALEY

17. *Political Problems.*

Three hours. First Term. Elective for approved Undergraduates
and for Graduates.

With special reference to the United States.

Professor WILSON

18. *Political Parties.*

Three hours. Second Term. Elective for approved Undergraduates
and for Graduates.

Their development in the United States and Europe.

Professor WILSON

19. *The Latin-American Republics.*

Three hours. Third Term. Elective for approved Undergraduates
and for Graduates.

Their governments and social conditions.

Professor DEALEY

[XXI. Social and Political Science, continued.]

13. *Administration.*

Three hours. First Term. Elective for approved Undergraduates and for Graduates.

Principles and national systems.

Professor WILSON

14. *Administration.*

Three hours. Second Term. Elective for approved Undergraduates and for Graduates.

Local and colonial.

Professor WILSON

5. *Development of Political Theory.*

Three hours. Third Term. Elective for approved Undergraduates and for Graduates.

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy.

Professor DEALEY

8, 9, 10. *Current Political Theory and Practice.*

One hour. Through the year. Elective for Graduates.

Professors WILSON and DEALEY

ELEMENTARY LAW

Mr. Moss

[1. *Persons and Personal Property.*]

Three hours. First Term. Elective for Juniors and Seniors. Not offered in 1903-04.

NOTE: Groups 1, 2, 3, and 4, 7, 8 are offered in alternate years. In 1903-04 the courses offered are 4, 7, 8. Courses 1, 2, 3 will be offered in 1904-05. Courses 5, 6, 9 will for the present be omitted. These groups should be taken consecutively, beginning in the Junior year. While the primary purpose of these courses is to cultivate a legal mind, yet they prepare thorough students to enter most law schools with advanced standing and possibly to shorten their law course by one year; they also give a good foundation to the student who expects to prepare for the bar in a law office.

[2. *Real Property.*]

Three hours. Second Term. Elective for Juniors, Seniors and Graduates. Not offered in 1903-04.

[XXI. Social and Political Science, continued.]

[3. *Contracts.*]

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.
Not offered in 1903-04.

4. *Torts and Criminal Law.*

Three hours. First Term. Elective for Juniors, Seniors and Graduates.

7. *Equity.*

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.

8. *Equity.*

Three hours. Third Term. Elective for students who have passed in 7.

[9. *Historical Development of the Common Law.*]

Three hours. First Term. Elective for Juniors, Seniors and Graduates.
Not offered in 1903-04.

[5. *Common Law Practice and Pleading.*]

Three hours. Second Term. Elective for Juniors, Seniors and Graduates.
Not offered in 1903-04.

[6. *Evidence.*]

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.
Not offered in 1903-04.

XXII. ZOÖLOGY, GEOLOGY AND ANTHROPOLOGY

Professor PACKARD

ZOÖLOGY

1. *General Course on Invertebrate Animals.*

Three hours. Second Term. Elective for Juniors and Seniors.

3. *Organic Evolution.*

Three hours. Third Term. Elective for Juniors, Seniors and Graduates.

Primary and secondary factors of evolution; relation of animals to the world around them; variation of species; zoögeography; effects of light, changes of temperature, food, climate; effects of isolation; kinetogenesis or dynamical evolution; mimicry; heredity; views held by different schools of evolutionists. Lectures and demonstrations.

[XXII. Zoölogy, Geology and Anthropology, continued.]

GEOLOGY

1. *Physical Geology.*

Three hours. First Term. Elective for Seniors.

5. *Structural and Stratigraphic Geology.*

Three hours. Six hours of attendance. First Term. Elective for Seniors.

Field and laboratory work.

2. *Historical Geology, including Paleontology.*

Three hours. Second Term. Elective for Seniors or for students who have passed in Geology 1, and Zoölogy 1 and 3.

Lectures, text-book and laboratory work.

9. *Paleontology.*

Three hours. Third Term. Elective for students who have passed in Geology 1, 2.

ANTHROPOLOGY

1. *General Course.*

Three hours. Third Term. Elective for Seniors and Graduates.

The principles of ethnology, ethnography and prehistoric archæology; man as related to other primates, origin of man, prehistoric races, language and race, writing, arts of life, amusements, primitive culture, including folk-lore, myths, primitive religious cults and primitive society. Lectures illustrated by bone, stone and bronze relics of the prehistoric races of Europe, Asia and Africa, by American stone and bone implements, by collections from New England shell-heaps, and by lantern views illustrating the fossil races of man and his art-remains in the Old World.

The Women's College

WILLIAM HERBERT PERRY FAUNCE, D. D., PRESIDENT

ANNIE CROSBY EMERY, Ph. D., DEAN

ADVISORY COUNCIL

MISS SARAH E. DOYLE

MISS AMELIA S. KNIGHT

MRS. ELIZA G. RADEKE

MRS. A. I. C. D. AMES

MRS. ANNIE HOWES BARUS.

In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

Instruction for undergraduate women is provided by a department of the University known as the Women's College in Brown University. The aim of this College is to offer to all properly prepared women precisely the same examinations, the same courses of study, under the same teachers, the same degrees, the same opportunities in every respect that the University offers to men, but to preserve the distinct social life of a separate college.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors who are actually teaching in the College.

The Corporation of the University assumes supervision and control of the Women's College as of other departments of the University, and for this purpose appoints annually an Executive Committee of the Women's College.

The President of the University is charged with the general direction, supervision and government of this College as of other departments of the University. The immediate direction, supervision and control is devolved, subject to the direc-

tion of the President, on the Dean of the Women's College. The Advisory Council, appointed under the authority of the Corporation, advises with the President and with the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation.

The Corporation receives gifts of money to found scholarships, fellowships and professorships in Brown University for the benefit of its women students, and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies and bequests for the Women's College, like those meant for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same that the University demands of men; and the entrance examinations for women are held at the same times and places and under the same conditions as those for men. In place of entrance examinations, certificates may be presented from duly authorized schools. For full information on all these points, see pages 20-33.

COURSES OF INSTRUCTION

In all the required studies classes are formed which are taught by the professors and instructors who have in charge the corresponding classes of men. Information in regard to the requirements for the various degrees may be found on pages 38-53.

The elective courses are identical in character with those offered to men. The list given on pages 54 to 117 of this catalogue may, therefore, be taken as indicating the range of choice. More precise information as to the courses offered is given each year in the circular issued at the beginning of the summer vacation.

Students who do not wish to become candidates for a degree are admitted to select courses of any extent, consisting either of special work in a single subject or of general studies for one term or more. Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the course chosen. Moreover, every special student, unless excused by the Dean and by the professors in charge of her subjects, must take the regular examinations in those subjects.

EXAMINATIONS

As a rule, women take the same examinations as those offered to men, and at the same times and places. When this is impracticable, and a separate examination is necessary, the two examinations are made as nearly identical in character as possible. Reports of proficiency are given after all examinations.

Before each University examination period the Dean files with the Registrar of the University a list of all undergraduate candidates for University examinations who are approved by the instructors in the Women's College, thus certifying to the fitness of the candidates to undertake the examinations; but no candidate is admitted to an examination whose term-bill is not paid or satisfactorily arranged-for at least five days before the beginning of the examination period.

DEGREES

Upon women students who complete with credit any of the regular courses, the Corporation of the University confers the corresponding degrees.

Special students who satisfactorily complete any of the minor courses of study receive certificates of their attainments.

PHYSICAL CULTURE

Great emphasis is laid upon physical training, and a competent teacher gives instruction in this subject throughout the

year. Regular exercise with light apparatus is required two hours each week of Freshmen and Sophomores; it is elective for Juniors and Seniors.

PEMBROKE HALL

The recitation building of the Women's College is of red brick with stone and terra cotta trimmings, after the old English University style of the fifteenth and sixteenth centuries. The building is three stories high, and fitted up with every convenience. On the first floor are the offices, a private room for the instructors, and three recitation rooms with a seating capacity of fifty-four in the smallest and seventy-nine in the largest. The hallway is fifteen and one-half feet wide, and the main staircase runs from the first floor to the assembly room at the top of the building. On the second floor are two recitation rooms, a reception room, a study and library combined, thirty by twenty-six feet, and a magazine and reading room, eighteen by twenty-six feet. The third floor is one large hall, seventy-six by forty-four feet, with open-timbered roof and two large fire-places, and on the south side a platform with a staircase from the rear to a dressing room in a half-story between the platform and reception room. In the basement, which is light, dry and airy, the students' lockers, baths, kitchen and lunch room are located.

The building is named after Pembroke College, Cambridge, England, the alma mater of Roger Williams.

LOAN FUNDS

The Rhode Island Society for the Collegiate Education of Women has founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans.

COLLEGE AID

The College awards annually from its own funds scholarships of varying amounts to students in need of financial aid. These scholarships are given only to students whose college work is creditable, and are withdrawn if their holders become deficient in scholarship or subject in any way to college discipline.

SCHOLARSHIPS AND PREMIUMS

The Sarah E. Doyle scholarship for young women, consisting of one thousand dollars, has been founded by the woman whose name it bears, the income to be applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence High School.

The sum of one thousand dollars has been paid to the Treasurer of the University to be known as "The Sarah Sutton Scholarship for young women, founded by her daughter, Mrs. Ruth Slater Arnold." The donor reserves the right to nominate candidates for this scholarship for a certain number of years.

The Daniels Scholarship Fund of twenty-five hundred dollars, founded by Harriet Daniels in memory of David Daniels, of the class of 1824, and of Francis Adolphus Daniels, of the class of 1862, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College.

The Howard Scholarship of one thousand dollars, presented by James Leland Howard, of Hartford, Conn.

The Joseph Thayer Scholarship of sixty-five hundred dollars. The income shall be for the education of any young man *or woman*, who is a resident of the town of Uxbridge, desiring a liberal education.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some worthy student in the Women's College.

The prize of forty dollars, offered by the Gaspec Chapter, Daughters of the American Revolution, is paid annually to

that student in the graduating class of the Women's College who presents the best essay upon some topic in American history. The topic for the year 1902-1903 was "The part taken by Rhode Island in the resistance of the American colonies to Great Britain, 1763-1775." The successful competitor was Jessie May Barbour. The topic for the year 1903-1904 will be "The Treaty of 1783 between Great Britain and the United States. The essays are to bear each an assumed name, but to be accompanied by an envelope marked with such assumed name and enclosing a sheet of paper with the candidate's real name and address. The essays must be handed to the Dean of the Women's College before May 1st, 1904. The award will be announced on Commencement Day, when the topic for the ensuing year will be named.

The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered by Brown University. Women candidates successful in first-premium contests receive collateral prizes awarded by the Dean.

EXPENSES

Students of the Women's College pay the same amount as other students of the University. One-half of the tuition and of the incidental expenses is to be paid in advance; the remainder is due January first. Laboratory expenses, etc., are to be paid two weeks before the close of a term. Checks should be made payable to Annie Crosby Emery, Dean.

CANDIDATES FOR A DEGREE

Tuition, \$105.00 a year. No deduction is made on account of absence.

Incidentals, \$45.00 a year.

Every member of the Freshman Class pays, upon admission to the Women's College, a matriculation fee of \$5.00.

Every member of the Senior Class pays, upon graduation, a fee of \$8.00 for her diploma and other expenses connected with graduation.

SPECIAL STUDENTS

Special students of the Women's College are charged \$10.00 a term for each course holding three recitations a week. Laboratory charges are in addition to this.

RESIDENCE

The College owns one dormitory, the Slater Memorial Homestead, which contains for the accommodation of students four double rooms and nine single rooms. All the rooms are well furnished. One of the single rooms, on the second floor, is unusually large, and for this with board the charge is \$8.25 a week. Two of the single rooms, on the third floor, are very small, and for each of these with board the charge is \$5.25 a week. For all the other single rooms, and for half of each double room, together with board, the charge is \$6.25 a week. Students are charged with room rent, but not with board during the vacations which occur in the academic year. The rate is \$2.50 a week for the majority of the rooms; \$4.50 and \$1.75 for the special rooms mentioned above. Payment for each term must be made in advance.

Laundry work is done in the house at a moderate price.

It is possible for students to obtain rooms very near the Slater Memorial Homestead and take their meals at the dormitory.

Desirable homes for students may also be obtained in private families. Lodgings, with or without board, may be secured on consultation with the Dean.

Libraries

The libraries of the University consist of about one hundred and fifty thousand volumes. They comprise the main library, which occupies the Library Building, the gift of John Carter Brown of the class of 1816; the John Carter Brown Library, with its own building, recently given to the University, and the department libraries, which are placed in connection with the various laboratories and seminary rooms.

THE MAIN LIBRARY

Additions to the main library are constantly made with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture for the use of the students. On the first two floors are arranged the books most in use, the entire west wing of the library on the first floor being given up to History, the north wing to Periodicals, Fine Arts and Social Science, and the east wing to Literature. The second floor is devoted to Philosophy, Theology, Geography, Antiquities, Education, Law, the Sciences and the Arts. In a separate room on this floor is shelved the Harris Collection of American Poetry. This collection, founded by Albert G. Greene and extended by C. Fiske Harris, was bequeathed to the University by Hon. Henry B. Anthony. It numbers over six thousand bound volumes, being perhaps the largest collection in the world devoted to the subject. The Albert G. Greene Fund, given by Samuel C. Eastman of the class of 1857, provides for its regular increase. On the third floor is the special room devoted to the Rider collection of Rhode Island History. This collection formed by Sidney S. Rider, and presented to the University by Marsden J. Perry, has no rival in extent and rarity of

manuscript and printed material bearing on the history of the state. On this floor are kept certain other collections, besides many thousand volumes of works infrequently consulted, arranged according to the classification adopted for the lower floors. To all but the two special collections the students have free access.

On the first floor, upon tables in the central reference room, are kept the latest numbers of the standard periodicals, American and foreign. In the wall cases are books of reference; while various shelves, particularly those on the central table, are devoted to books reserved by the departments. In this room are the Select Library of attractive reading, the Loan Desk, where books are charged and returned, and the desk of the Reference Librarian, whose duty is to advise and assist students in their use of the books whether for class work or for private reading and research.

The library funds amount to over seventy-seven thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of works on mediæval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on mediæval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the Library without expense: The members of the Corporation and Faculty; other college officers; graduates residing in the State of Rhode Island; donors to the funds of the University to the amount of five hundred dollars, residing in the state of Rhode Island; graduate and undergraduate students; and also other persons on whom the Corporation or the Library Committee may from time to time confer the privilege.

The Library is open during term time from 9 A. M. to 11 P. M. on week days, and from 1 to 11 P. M. on Sundays; during vacations, from 10 A. M. to 4 P. M. on week days.

THE JOHN CARTER BROWN LIBRARY

The John Carter Brown Library, given to the University by the Trustees under the provisions of the will of the late John Nicholas Brown, A. M., of the class of 1885, is a collection of about 15,000 volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800, and contain the earliest published accounts of events connected with the history of the discovery, exploration and colonization of the western hemisphere. This collection, well known for many years as the most valuable private library of Americana in existence, was begun by John Carter Brown of the class of 1816, and after his death was greatly enlarged by his widow and his sons, the late John Nicholas and Harold Brown.

Until transferred to its new building now in process of erection, the library will be open only to properly qualified students, by whom arrangements to consult it may be made with the President of the University, the University Librarian, Professor MacDonald, or the special Librarian of the John Carter Brown Library.

THE GERMANIC DEPARTMENT LIBRARY

In the two rooms occupied by the Germanic department in Sayles Memorial Hall is the Conant German Seminary Library, which was purchased in Germany by the late Professor Williams in the name of the principal donor, the Hon. Hezekiah Conant. The library now contains over six thousand carefully selected volumes, including editions of all the important writers in German literature; a large collection in Germanic philology; the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, palæography and geography. The Library is especially rich in works of the Middle High German period, and in Goethe and Schiller literature. It possesses many works of art which illustrate the subjects taught, bronzes,

framed engravings, and volumes of plates. All the officers of the department have their private studies here, and are thus brought into daily contact with their advanced students. The rooms are open from 9 A. M. to 12:30 P. M., from 2 to 6 P. M., and from 8 to 9:30 P. M.

THE CLASSICAL DEPARTMENT LIBRARY

The Albert Harkness Classical Seminary, named in honor of its founder, Professor Albert Harkness, Ph. D., LL.D., occupies a large room in Sayles Hall. It is furnished with a library of fifteen hundred volumes, purchased with funds contributed by friends of the University interested in classical studies. In selecting the books, the requirements of a good working library were studied with particular care. The most important collections of Greek and Roman authors, many of the best commentaries, reference books and similar aids are therefore to be found here; and the seminary is made the centre for advanced study and research in the classical languages and literatures. Though primarily intended for graduates, the seminary is open to such of the undergraduates as are qualified to profit by its advantages. The room is open from 9 A. M. to 10 P. M.

THE ROMANCE DEPARTMENT LIBRARY

A room in Sayles Hall is devoted to a choice special library for the use of advanced students in the Romance languages. Here all the graduate courses of the department are conducted, and one of the professors or instructors is constantly at hand to give informal assistance and advice.

THE BIBLICAL DEPARTMENT LIBRARY

For the use of students in the Biblical department a room in Sayles Hall has been provided with a reference library of about one thousand volumes. This library includes a valuable collection of Semitic books presented by Mr. Jacob Shartenberg of Pawtucket. A number of Semitic, Biblical and general religious journals are kept on file. The room is

open from 9 A. M. to 12 M., from 2 to 5 P. M. and from 7 to 10 P. M.; on Saturdays from 9 A. M. to 12 M. A curator is in attendance to assist students in verifying references.

BIOLOGICAL DEPARTMENT LIBRARY

In the rooms of the department of Comparative Anatomy in Rhode Island Hall is a collection of more than twelve hundred volumes, to which additions are constantly made. Here also are kept the current periodicals bearing upon the work of the department. The rooms are open from 9 A. M. to 4 P. M.

EDUCATIONAL DEPARTMENT LIBRARY

The library of the department of Education is in the seminary room of the department, Administration Building, room 10. The library contains about one thousand volumes, chiefly text-books of recent publication, and the beginning of an exhibit of schoolroom decorations. The room is open to all students interested in education. The teachers and friends of education in the city and state are cordially invited to avail themselves of the privileges which the room offers.

THE WOMEN'S COLLEGE LIBRARY

To the library and reading room of the Women's College are devoted two beautifully appointed rooms in Pembroke Hall. The library contains about two thousand volumes, all recently purchased, and has a complete card catalogue. The aim of the collection is to furnish a reference library of standard literature, with special regard to the departments of study pursued, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library.

OTHER SPECIAL LIBRARIES

Most of the other departments of the University have special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Botany, Chemistry, Economics, Civil and Mechanical Engineering, Mathematics and Physics.

THE SEARS READING ROOM

The Sears Free Reading Room, supported by the Brown Young Men's Christian Association and open to both students and Faculty, is a commodious and well-lighted room on the first floor of University Hall, containing newspapers and illustrated periodicals, the public telephone, and a piano for use at special social gatherings.

OTHER PROVIDENCE LIBRARIES

There are also practically at the service of the students of the University the six collections of books named below. These comprise with the University Library about four hundred thousand volumes, exclusive of pamphlets and manuscripts.

THE PROVIDENCE PUBLIC LIBRARY

All students of Brown University are welcome, upon the same conditions as other residents of the city, to use the carefully selected Public Library of Providence, which comprises nearly 110,000 volumes. Its new building, situated at the corner of Washington and Greene streets, is one of the most beautiful and best planned library structures in America. It includes various special collections and departments. Its principal rooms are open regularly from 10 A. M. to 9 P. M.; on Sundays and legal holidays from 2 to 9 P. M. Among its special departments may be mentioned the Harris Collection on Slavery and the Civil War, on the third floor; the Educational Study-room and the "Standard Library" of best literature, on the second floor; and the Reference Department on the ground floor, which is open until 10 P. M. About 600 periodicals, serials and annuals are currently received. The Library of the Rhode Island Medical Society is on the third floor. The library staff will be glad to be consulted with respect to books in any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

THE LIBRARY OF THE PROVIDENCE ATHENÆUM

The Athenæum furnishes a home library, larger and better than that within the means of any individual shareholder. Its growth is along the lines of general literature. The library numbers 65,000 volumes, and the reading room receives upwards of 200 papers and magazines, including New York, Boston and Providence daily papers, and American, English, German, French, and Italian weeklies, magazines and reviews. In bound sets of periodicals this library is especially rich, also in its collection of art books. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain special privilege from the board of directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is seven dollars and a half. The Athenæum is open during the college year from 9 A. M. to 10 P. M. on week days.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY

The library of the Rhode Island Historical Society is situated on Waterman street, next door to the University Library Building. The library of the society comprises 20,000 bound volumes and 40,000 valuable unbound volumes and pamphlets. Through the courtesy of the society the collection is made accessible, free of charge, to members of the University. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history. Its library has recently been enriched by a special bequest of books on the English and American drama, and by a collection of works on early American travels and ethnology. The collection is open from 9 A. M. to 4 P. M. on week days.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY

This collection, which may be found in the Providence Public Library building, on Washington street, comprises 16,500 volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene, and other subjects the study of which is pursued in the University. About 170 medical periodicals are currently received. Arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This collection is open daily, from 2 to 6 p. m.

THE STATE LAW LIBRARY

This collection of 25,000 volumes may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 A. M. and 5 P. M. on week days. It is accessible to all students, and for certain lines of University study is invaluable.

THE STATE LIBRARY

The State Library, located in the State House, is accessible to the public from 9 A. M. to 4 P. M.; on Saturdays from 9 A. M. to 12 M. This library contains a large collection of official documents of the United States and of the several states, as well as general works pertaining to history and political science. Students are cordially welcome.

Laboratories

THE LADD ASTRONOMICAL OBSERVATORY

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses open to undergraduates and graduates.

The Observatory furnishes constant time-signals to the Rhode Island Electric Protective Company, by which they are distributed to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity and precipitation are made throughout the year. Special observations are also made as opportunity offers.

THE PHYSICAL LABORATORY

All the courses of instruction offered by the department of Physics are conducted in Wilson Hall. This building was specially designed and constructed for a physical laboratory. The general lecture room is large and well ventilated, and contains all the necessary conveniences for the experimental demonstration of lectures. Twelve laboratory rooms are available for the experimental study of physics, each room being fitted for the investigation of a particular branch of the subject or for the arrangement of classes according to proficiency. Brick piers support instruments requiring great steadiness, and the magnetic rooms are as free as possible from iron and other

disturbing influences. Several rooms on the ground floor are devoted to a laboratory for electrical engineering, and are well provided with machinery and instruments. Equipment for certain special investigations recently undertaken has been placed at the disposal of the department by friends of the University. Efforts have been made to develop the facilities for high-temperature and high-pressure work, in the directions specified in courses 22 and 23. The cabinets are well supplied with apparatus both experimental and demonstrative, and frequent additions are made as necessity requires. In all such cases new property is selected with a view to use in the students' laboratory as well as in the lecture-room, and to the exclusion of merely exhibitional apparatus. The department is in possession of a large assortment of historical and other photographs and lantern slides, as well as of cage models illustrating the propositions in pure and applied physics.

THE ANATOMICAL LABORATORY

The laboratories of the department of Comparative Anatomy are in Rhode Island Hall, and consist of private rooms for instruction, a laboratory for graduate students, a seminary room, a physiological laboratory, a laboratory for bacteriology and histology, a laboratory for neurology and embryology, and the large laboratory for elementary anatomy and the comparative anatomy of vertebrates and invertebrates.

All the laboratories are adequately equipped with appropriate reagents and apparatus. The very large collection of zoological material, the anatomical and histological preparations of the museum, the anatomical collection of the Rhode Island Medical Society, and rich material frequently contributed by the United States Fish Commission from the deep sea dredging excursions, are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of two floating laboratories located on opposite sides of Narragansett Bay.

The department library contains twelve hundred volumes of the more important works on biology. More than forty current biological periodicals are regularly received, and full sets of many of the most useful journals are upon the shelves. Students doing advanced work have access also to the library of the Rhode Island Medical Society and to the library of the Boston Society of Natural History.

THE CHEMICAL LABORATORY

The department of Chemistry occupies the original portion of Rogers Hall, which was erected expressly for its use. Besides various subsidiary rooms the building contains the chemical lecture room and laboratories.

The *inorganic* laboratory is supplied with appropriate work tables and lockers, furnishing accommodations for about two hundred and fifty students working by detachments. Adjacent are the balance room, the furnace room, the professor's office, and the professor's laboratory.

The *organic* laboratory is fitted with work tables for about fifty students. Each table has arrangements for gas, high pressure water supply, etc. The room has excellent hoods, besides large and accessible shelf room for apparatus and supplies. The library of the chemical department is here. Adjacent are other rooms, such as the lecture room, the professor's laboratory and the apparatus room.

THE BOTANICAL LABORATORY

The Botanical department occupies the entire basement of Maxey Hall. The main lecture room and laboratory will accommodate thirty-seven students. A somewhat smaller room adjoining is used for a histological laboratory and will accommodate twelve students. Instruments and certain materials are provided. The Herbarium, on the same floor, is convenient for consultation and for systematic study of native and foreign plants.

THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies rooms in Wilson Hall. It possesses a considerable variety of apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and other fields of research. This equipment is especially well adapted for the illustration and demonstration of the main results of experimental work in psychology. Experimental psychology, however, is a science of recent origin, and its many yet unsolved or even unsuspected problems offer a rich field for further investigation. The department aims to make contributions to knowledge on this subject by original research; and the apparatus already possessed, and that which can be supplied by the University workshops or by purchase, together with what can be prepared in the laboratory itself to meet the demands of particular problems, offer good facilities for such work.

THE MECHANICAL ENGINEERING LABORATORIES

The laboratories, library and drawing room of the department of Mechanical Engineering are situated in the new Engineering Building. This building is 72 by 84 feet, three stories high, and is designed so that a later addition of nearly equal size may be made to provide for all the engineering departments. The first floor is used as an engineering laboratory. On the second floor are four large recitation rooms and a laboratory, containing the lighter experimental apparatus. The third floor is used entirely for drafting.

The laboratory for testing the strength of materials contains a 400,000-pound Riehle testing machine of special design for testing large specimens in tension, compression and cross bending; a 50,000-pound Riehle testing machine; a machine for testing full sized timber and steel beams; a 50,000-inch-pound Olsen torsion testing machine; a machine for testing

by repeated stresses; a Riehle cement testing machine; and the necessary auxiliary apparatus such as micrometers, extensometers, etc.

The steam engineering laboratory contains a cross-compound condensing Corliss engine, size 10 and 18 by 30, specially designed for experimental purposes, together with various smaller engines, steam pumps, injectors, and the necessary apparatus for testing the same. A boiler of 250 pounds working pressure, arranged for either natural or mechanical draft, has recently been installed, while the enlarged central heating plant of the University is used as a basis for numerous tests by the students.

The laboratory of metallography is equipped with apparatus for investigating the nature and structure of alloys. In connection with the laboratory is a properly equipped photographic dark room. The apparatus includes polishing machines for preparing specimens, an excellent Leitz microscope with accessories, including photographic apparatus, a thermo-electric pyrometer and lantern apparatus.

The department is provided with necessary small apparatus such as indicators, tachometers, gauge tester, steam and fuel calorimeters, gas analysis apparatus, facilities for meter testing, etc. Models for the illustration of the various courses are constantly being made or acquired. The apparatus for the new laboratories is being selected with a view to the practical demonstration of fundamental principles of engineering, which, if thoroughly mastered, will enable the student to apply his knowledge to the varied and special cases that arise in the work of the engineer.

THE MECHANICAL ENGINEERING SHOPS

These shops are situated in Rogers Hall and are well equipped for purposes of instruction. The wood working shop is provided with large and small lathes, circular and band saws, buzz planer, vertical boring and mortising machines and ample benches and bench tools. The metal working shop is provided with engine lathes of good sizes, hand lathes, planer, shaper,

milling machines, large and small vertical drills, universal grinder, surface grinder, cutter and reamer grinder, drill grinder, power hack saw and a small foot press. There is also a blacksmith's outfit for forming and dressing tools, and facilities for hardening and tempering. The shops are run by two ten-horse-power electric motors.

THE MECHANICAL DRAWING ROOMS

The mechanical drawing rooms are on the top floor of the Engineering Building. These rooms are large and well lighted and accommodate two hundred and fifty students. About two hundred and twenty-five valuable models in wood and metal have been collected. Many of these are mechanical in nature and are extensively used in the courses. The department possesses a dark room, exposure frame and washing tank, for preparing and developing blue-prints. Connected with the main drawing room is a library and reading room in which may be found such books of the University Library as relate to drawing and allied subjects, together with other books which are owned by the department. A limited number of sets of drawing instruments have been provided for the use of deserving students who would otherwise be unable to pursue desired courses in drawing.

A large and well equipped drafting room has recently been erected over the mechanical engineering workshops for the use of the department of civil engineering. This room has desks for about sixty students and also contains the office of the department and the department library. A set of steel structural shapes and several hundred drawings and photographs have recently been acquired, which greatly facilitate the instruction in design.

Museums

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY

The Museums of Zoölogy and Anthropology are in Rhode Island Hall, and are open to the public daily. Students desiring to use the collections for the purpose of study or investigation receive every encouragement, the aim being to make the museums not mere exhibition rooms, but places for work. The zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and rare implements from foreign countries, and a valuable collection of stone implements of aboriginal American races, including those of Rhode Island.

THE HERBARIUM

The Herbarium, situated in Maxcy Hall, consists mainly of various collections which have been given or bequeathed to the University. Those of Colonel Olney, Mr. Bennett, Dr. Bailey, Miss Stout and Mr. Brownell are the most prominent. The Olney collection is particularly rich in the genus *Carex*. The Stout collection consists mostly of ferns. In addition to these collections many specimens have been obtained by exchange, purchase and small donations. The Olney, Bailey and Stout collections are nearly all mounted; the remainder are mainly unmounted. These collections are merged in one general herbarium and deposited in cases. They were roughly estimated, a few years ago, to contain in all about 40,000 sheets, representing specimens from more than 60,000 localities. In 1902 Dr. Bailey's second herbarium was purchased by friends and presented to the University. This is now being arranged

and mounted, and will ultimately be merged in the general collection. To these is added the nucleus of a collection of seeds.

The arrangement of orders and genera of the flowering plants is at present according to Bentham and Hooker's *Genera Plantarum*; the ferns according to Hooker's *Synopsis Filicum*; the mosses according to Eaton's list. These are soon to be arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien*.

Many portraits of famous botanists hang on the walls of the Herbarium room. A portrait of Colonel Stephen T. Olney, the founder of the department, has been presented to the Herbarium by his niece, Mrs. F. H. Peckham.

THE MUSEUM OF FINE ARTS

The Museum of Fine Arts occupies the first floor of Manning Hall. It contains plaster casts of rare excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography and art. It also contains a few bronzes and oil paintings.

PORTRAITS

The University possesses a large number of valuable portraits. Most of them are hung in Sayles Memorial Hall, which is thus made one of the chief centres of attraction on the University grounds. The collection receives accessions every year. It now includes portraits of the University's principal benefactors, of many of its former officers, and of many other distinguished persons, Americans and foreigners, the history of Rhode Island being especially well represented.

Physical Culture

A certain amount of systematic physical training is required of every undergraduate connected with the University, unless he is physically unable to engage in it.

Upon entering the University every student receives a thorough physical examination by the Director of Physical Culture. From this examination a chart is made out for the student, showing his size, strength and development, and how he compares with the normal standard. Along with these data is given a card indicating how any weakness that may exist is to be remedied, and affording advice in reference to bathing and the general care of the body.

During the second term each student is required to exercise three hours a week in the Lyman Gymnasium. Most of this exercise occurs in class. The movements executed are graded to correspond with the strength and advancement of the several classes. These exercises, carefully conducted, prove to be both popular and beneficial. After the required classes ample time is afforded for each student to devote to the fulfillment of the directions given him on the card made out from the measurements taken at the beginning of the year. Each student is regularly marked and credited in his gymnasium work on the basis of faithfulness and punctuality.

The gymnasium has recently been enlarged by the erection of a swimming pool, the gift of Colgate Hoyt, Esq., of New York. The structure is enameled brick and marble, and is supplied with a filter, through which the water passes before going into the pool, to ensure its clearness and purity. The dimensions of the pool itself are 75 by 25 feet. The pool is open every week day; morning hours are reserved for beginners, afternoons for the general use of the students. A competent instructor is always in charge and a special endeavor is made to teach all new students to swim.

In addition to the exercises in the gymnasium, every effort is made to encourage interest in outdoor sports and participation in them at proper seasons of the year. Regular exercise in the open air is urged upon students as of very great importance. Lincoln Field adjoins the gymnasium, and Andrews Field, about a mile from the University, is available for all forms of athletic contests.

The general control of all athletic organizations is in the hands of a committee of the Faculty.

HOSPITAL BEDS

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, THE CHARLES SMITH BRADLEY FREE BED, was established in 1872 by a payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, THE GEORGE IDE CHACE FREE BED, was established by a payment to the hospital of a like sum by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital, according to the rules of the institution to occupy a bed in said hospital, and to receive the usual care, and medical, surgical and other attendance, and medicines and board, free of charge."

Advantages for Teachers

TEACHERS' BUREAU

The Brown University Teacher's Bureau has been established for the purpose of communicating with institutions desiring to employ graduates of Brown who are qualified to teach. To this end it solicits correspondence with those who are seeking well equipped teachers, and invites inspection of the list of such teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools.

It is the further purpose of the Bureau to foster co-operation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates will be kept.

The office of the Secretary is in the Administration Building, room 10.

STUDENT - TEACHERS

By a special arrangement with the School Committee of the City of Providence, student-teachers are appointed to places in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type—of whom there are at least six (three of each sex)—under the guidance and direction of experienced teachers, have the control and conduct of

classes. The time required each day is somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are occupied in a similar way from three to five hours a week. They receive no remuneration from the city. An unusual opportunity is thus afforded student-teachers to gain a thorough knowledge of the theory of education and at the same time practical experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High School, preference is given to those who have successfully accomplished the course as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type.

Student Advisers

Under the system of student advisers instituted in the University, every member of the Freshmen class is assigned to some member of the Faculty, who serves throughout the year as a special counsellor and friend to that student. The preferences of students and advisers are consulted when practicable. It is believed that many students have been graduated from the University without that personal acquaintance with the Faculty which is usual in smaller institutions. Under the elective system, students are frequently at a loss to decide upon courses of study. On these and other matters the student will be at liberty at any time to seek the counsel of his adviser. The relation between the student and his adviser, being voluntary to each, is designed to be perfectly fraternal.

Social and Religious Life

Chapel exercises are held in Sayles Hall every morning on week days at 8.40. At the same hour the Women's College has its chapel service in Pembroke Hall. The President usually conducts the exercises at Sayles Hall, and the Dean of the Women's College conducts the service at Pembroke Hall. Attendance is required for undergraduate students.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public. The preachers last year were as follows: Rev. Samuel A. Eliot, D. D., of Boston, Rt. Rev. William Lawrence, D. D., Bishop of Massachusetts, Rev. Henry M. Sanders, D. D., of New York, Rev. Newell Dwight Hillis, D. D., of Brooklyn, Professor Henry Van Dyke, LL. D., of Princeton University, Rev. George H. Ferris, of New Haven, Rev. Lyman Abbott, D. D., LL. D., of New York, and President W. H. P. Faunce, D. D.

All students are desired and encouraged to attend church on Sunday, and the churches of the city are most cordial in their attitude toward the student body.

Voluntary Bible classes for students are conducted by the Brown University Young Men's Christian Association, which also maintains an employment bureau and supports philanthropic work in the city.

Rockefeller Hall, the new building to be devoted solely to the social and religious life of the students, is now approaching completion, and will provide a home for the higher life of the University. In it the Young Men's Christian Association will find ample room for all phases of its work. At the same time all other student organizations—literary, musical, social and athletic—will be accommodated under the same roof.

It is believed that the opening of this building, with its great possibilities, will constitute a distinct epoch in the life of the University.

The Rhode Island School of Design

The Rhode Island School of Design, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and rapidly increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures on art. Its school buildings and museum are near to Brown University, and its collections are open daily to the public free of charge. Through its ordinary and special exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this school will be open to students of Brown University, and will be counted as qualifications for a degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the lists of studies given in the departments of Art and Drawing, on pages 57 and 69.

Students from the Rhode Island School of Design may be admitted to any classes in Brown University for which they are found to be prepared, and Brown University will give certain special courses for the benefit of classes from the Rhode Island School of Design.

The American School of Classical Studies at Athens

Brown University has been connected with the American School of Classical Studies at Athens ever since the foundation of the school in 1881. Professor Albert Harkness was a member of the first committee of five persons appointed by the Archæological Institute of America to establish this school for the benefit of graduates of American colleges desiring to pursue advanced classical studies in Greece. Until 1902 the privileges of the school were secured to graduates of Brown University by the payment of an annual contribution of \$250, and this sum was obtained through subscriptions. In 1902 a number of the friends of the University, in recognition of the sixtieth anniversary of the graduation of Professor Harkness, united in contributing the sum of \$5,555, which was paid to the Treasurer of the American School of Classical Studies at Athens to establish a fund to be known forever as "The Albert Harkness Fund for the benefit of Brown University." The privilege of free tuition in the School at Athens for all adequately prepared graduates of Brown University is henceforth secured by the establishment of this fund, and no further annual payments will be required. The superior opportunities offered to American college graduates by the School at Athens are too well known to need recounting; but any who may desire detailed information regarding the school can obtain it by applying to Professor William Carey Poland, a former Director of the school, and now a member of the Managing Committee.

Attendance, Examinations and Reports

REGISTRATION AND ATTENDANCE

All undergraduate students and resident graduate students who desire to attend the University during a given term are required to register at the Registrar's office before the first day of such term. Every undergraduate student registered or re-registered on or after the first day of any term is charged for such registration or re-registration a fee of three dollars, to be remitted only by the President or the Dean, and only on presentation of a substantial excuse for the lateness or the change. Any modification of a registration once made is accounted a re-registration.

Each student is expected to attend the daily chapel service and also every exercise in the several studies to which he is assigned.

EXAMINATIONS AND STANDING

Except in laboratory, seminary and similar work, all classes are examined at the close of each term.

A student is not admitted to examination in a study in which his term work is unsatisfactory to the officer of instruction or from which he has been absent one-half of the time assigned to the study.

The standing of students is indicated by letters as follows:

H is assigned to those whose work is of such excellence as to merit the designation of honor work.

C is assigned to those who have passed with credit.

P is assigned to those who have passed in the subject, but deserve no higher recognition.

F is assigned to those whose work during the term has been so unsatisfactory that in the opinion of the instructor they

should not be allowed an examination, or to those whose examination has been so unsatisfactory that it should, in the opinion of the instructor, constitute a failure without regard to the work of the term, or to those who in the combined work of the term and the examination have failed to pass in the subject.

I is assigned to those whose work is incomplete, but satisfactory so far as done.

L may be assigned in courses which are to be continued the following term, to those whose work while not an unequivocal failure is of a low grade. This mark will be changed to either *P* or *F* as the student's subsequent work may determine.

Abs is assigned to those who are absent from examination, unless *F* has already been assigned.

Whenever a student's absence from examination has not been excused by the Committee on Absences, the mark *Abs* is changed to *F*.

A student who receives the mark *F* must pursue the subject again with a succeeding class, or if the instructor allows, under a tutor appointed by the head of the department; or, if the failure is in an elective course, he may take as a substitute some other course approved by the Committee on Admission to Advanced Standing.

Examinations other than those regularly appointed are not held except in case of (1) candidates for advanced standing whose examinations are authorized by the Committee on Admission to Advanced Standing, (2) students detained from the regular examination whose absences have been excused by the Committee on Absences, (3) students who have been allowed to pursue, under appointed tutors, studies in which they have failed at a regular examination.

A student who wishes to take a special examination must obtain from the Registrar a written authorization, for which he shall pay a fee of two dollars, unless this is remitted by the President or the Dean, and must then arrange with the officer of instruction for the examination. In case of failure the authorization must be signed by the tutor, in case of absence, by the chairman of the Committee on Absences.

A student who at the close of a term has failed in three or more studies, counting for more than eight hours of work a week, cannot be again registered without special action of the Faculty.

DEPARTMENTAL HONORS

Term honors in any department are awarded to those who receive the mark *H* in a given term.

Final honors in any department are awarded at the completion of the studies leading to a baccalaureate degree to those who have secured (1) term honors in the department in courses aggregating eighteen or more term hours, (2) a mark of *C* or *H* in eighty-five per cent. of all their courses of study. Certain specified courses, however, in any department may not be included in those counted for final honors.

The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue.

REPORTS OF ATTENDANCE AND PROFICIENCY

A careful record is kept of the attendance of every student of the University, and of his proficiency in his several studies. The standing of every undergraduate student is determined at the close of each term. A report is sent to the parent or guardian of every undergraduate student containing the record of all absences from required exercises, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

Expenses

Upon registration every student is required to present a guarantee covering all his college expenses, signed by his parent or guardian, or other responsible person.

Term bills are due, and must be paid or their payment secured on presentation, at the beginning of each term.

REGULAR UNIVERSITY DUES

UNDERGRADUATE CANDIDATES FOR DEGREES

The dues of every undergraduate candidate for a degree are as follows:

Tuition, \$35 a term; \$105 a year.

General incidentals, \$15 a term; \$45 a year.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and gymnasium, heat for these buildings and for the halls and recitation rooms, and the wages of servants to care for the same.

Every undergraduate candidate for a degree pays, upon matriculation, a fee of \$5.

Every member of the Senior class pays upon graduation a fee of \$8 for his diploma and other extra expenses connected with graduation.

For laboratory dues, see below.

For expenses of college rooms, see below.

Students leaving college before the middle of a term, unless for misconduct or failure in scholarship, pay in tuition, incidentals and laboratory fees (exclusive of breakage which is charged at cost) only half the usual term dues. Students leaving college on account of misconduct or failure in scholarship receive no reduction.

SPECIAL STUDENTS

Special students in the University pay, as a rule, full tuition and incidentals, but the charge is proportionately less when students are admitted to courses of less than fifteen hours of class attendance a week.

GRADUATE STUDENTS

The fees for graduate students in residence are:

Tuition, \$50 a term; \$150 a year.

Examination for the degree of MASTER OF ARTS, \$15.

Examination for the degree of DOCTOR OF PHILOSOPHY, \$25.

Laboratory dues, see below.

A candidate in residence for the degree of MASTER OF ARTS who has paid tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of MASTER OF ARTS who, without remitting his studies, becomes a candidate for the degree of DOCTOR OF PHILOSOPHY is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of DOCTOR OF PHILOSOPHY who has paid tuition for two years may, without additional charge, continue his studies for two years more if necessary to the attainment of his degree.

The fees for a non-resident candidate for the degree of MASTER OF ARTS are:

Registration fee, \$25.

Tuition, \$10 a term; \$30 a year.

Examination fee, \$15.

For laboratory dues, see below.

A non-resident candidate is entitled, upon payment of the above fees, to pursue one three-hour course at the University. For each additional one-hour course \$5 is charged; for each additional two-hour or three-hour course, \$10.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his

studies for two years more without additional charge, except for work taken in class-room, as stated in the preceding paragraph.

Graduate students not candidates for a degree pay at the same rates as special students.

SPECIAL LABORATORY DUES

CHEMISTRY

Students who take courses 1, 2 or 3 are charged \$3 a term, in addition to the regular charges for tuition.

Students who take advanced courses in chemistry are charged \$5 a term for a three-hour course, and \$10 for a six-hour course, in addition to the regular charges for tuition.

Graduate students pay the same fees as undergraduate students.

The above fees include the use of common chemicals but students are charged for breakage and special chemicals.

PHYSICS AND ENGINEERING

Students who take courses in the physical laboratory pay \$5 a term for a three-hour course (six hours of attendance).

Students who take shop-work pay \$5 a term for a three-hour course (six hours of attendance).

BOTANY

Students who take courses in Botany pay \$3 a term.

COMPARATIVE ANATOMY

The charge for a laboratory course is usually about \$5.

ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student occupying (with a room-mate) a dormitory room, not including outlay for clothes and travelling or other strictly personal expenses.

	Minimum	Medium	Maximum
Tuition.	\$105	\$105	\$105
Incidentals.	45	45	45
Room rent, including heat and service .	25	60	125
Board (40 weeks)	100	150	280
Books and laboratory expenses.....	10	30	75
Total.....	\$285	\$390	\$630

Matriculation fee (first year), \$5.

Graduation fee (fourth year), \$8.

Board is not furnished by the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to the students. THE BROWN UNIVERSITY CO-OPERATIVE REFECTORY, organized and controlled by students, furnishes its shareholders with board at cost. At present the price is \$3.75 a week.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, by teaching in evening schools and by other occupations not necessarily inconsistent with their college duties.

Dormitory Accommodations

In the College Dormitories there are in all one hundred and forty-four single rooms and thirty-four suites.

The rooms in Hope College, University Hall, Slater Hall and the College Street House are rented entirely unfurnished. Those in Maxcy Hall contain all necessary furniture, occupants providing nothing except bed-linen and towels.

The prices given in the following tables include rent, heat and service for the college year. In the College Street House the gas is included. In Slater Hall, University Hall, Hope College and Maxcy Hall there are gas meters for each room and the occupants are charged for the gas used each term.

Caswell Hall, the new dormitory on the southeast corner of Lincoln Field fronting on Thayer Street, is now ready for occupancy. The building is thoroughly modern in every respect. On the first three floors of the north and south divisions are suites provided with private baths, etc., while the rest of the building contains single rooms. All the rooms are furnished by the University. Further particulars can be obtained by addressing the Registrar.

ROOM CONTRACTS

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or see paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

FORM OF CONTRACT

The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No. in ; the same not to be occupied by any other person without consent of the party of the first part, and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to \$ for the college year beginning September, 190 .

It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.

Signed

This day of 190 .

Students who desire to retain the rooms rented by them during the present year may do so by signing new contracts for the coming year. These contracts must be filed with the Registrar before 4 P. M. on May 14th, 1904.

All rooms not signed for on the above date will be disposed of at a drawing on May 27th at 4.15 P. M. Men intending to enter college can arrange to be represented at the drawing by notifying the Registrar.

Not more than two students are allowed regularly to occupy a room or suite.

When the University holds full contracts for a room, the tenant or tenants may admit one or two day-roomers, but not more than two. The names of any such day-roomers must be reported to the Registrar as soon as the arrangement for sub-occupancy is made.

For each day-roamer the University makes an extra charge of one dollar a term for service. This sum is paid to the University by the tenant in chief if there is but one; if there are more it is divided equally among them.

The following conspectus shows the rent and location of each dormitory room.

HOPE COLLEGE						UNIVERSITY HALL					
No.	Division	Floor	Windows Face	Bedrooms	Rent	No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. & S.	Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	\$123	4	South	1	W.	None	\$150
2	"	"	W. & S.		129	10	"	2	S. & W.	2	250
3	"	"	W.		123	12	"	"	W.	None	115
4	"	"	E.		120	13	"	"	W.	"	115
5	"	2	E. & S.		123	16	"	"	E.	"	100
6	"	"	W. & S.		129	17	"	"	E.	"	106
7	"	"	W.		123	18	"	"	E. & S.	"	133
8	"	"	E.		120	19	"	3	S. & W.	2	240
9	"	3	E. & S.		114	21	"	"	W.	None	112
10	"	"	W. & S.		120	22	"	"	W.	"	112
11	"	"	E.		114	25	"	"	E.	"	100
12	"	"	W.		108	26	"	"	E.	"	100
13	"	4	E. & S.		108	27	"	"	E. & S.	"	121
14	"	"	W. & S.		114	28	"	4	S. & W.	2	220
15	"	"	W.		108	30	"	"	W.	None	100
16	"	"	E.		105	31	"	"	W.	"	100
17	Middle	1	E.		120	32	"	"	E.	"	97
18	"	"	W.		123	33	"	"	E.	"	97
19	"	"	W.		123	34	"	"	E. & S.	"	121
20	"	"	E.		120	36	North	1	College Book Store		
21	"	2	E.		120	40	"	2	W.	None	115
22	"	"	W.		123	41	"	"	W.	"	115
23	"	"	W.		123	43	"	"	W. & N.	2	250
24	"	"	E.		120	44	"	"	E. & N.	None	121
25	"	3	E.		108	45	"	"	E.	"	106
26	"	"	W.		114	46	"	"	E.	"	100
27	"	"	W.		114	47	"	3	W.	"	106
28	"	"	E.		108	48	"	"	W.	"	106
29	"	4	E.		105	50	"	"	W. & N.	2	240
30	"	"	W.		108	51	"	"	E. & N.	None	115
31	"	"	W.		108	52	"	"	E.	"	100
32	"	"	E.		105	53	"	"	E.	"	100
33	North	1	E.		120	54	"	4	W.	"	100
34	"	"	W.		123	55	"	"	W.	"	100
35	"	"	W.		135	57	"	"	W. & N.	2	210
36	"	"	E.		135	58	"	"	E. & N.	None	115
37	"	2	E.		120	59	"	"	E.	"	97
38	"	"	W.		123	60	"	"	E.	"	97
39	"	"	E. & N.		135						
40	"	"	E. & N.		135						
41	"	3	W.		108						
42	"	"	W.		114						
43	"	"	W. & N.		123						
44	"	"	E. & N.		123						
45	"	4	E.		105						
46	"	"	W.		108						
47	"	"	W. & N.		114						
48	"	"	E. & N.		114						

MAXCY HALL

No.	Floor	Windows Face	Rent
201	2	E	\$140
202	"	"	140
203	"	E. & S.	140
204	"	W. & S.	135
205	"	W.	135
206	"	"	135
207	"	"	135
208	"	"	135
209	"	W. & N.	135
210	"	E. & N.	140
211	"	E.	140
212	"	"	140
313	3	"	140
314	"	"	140
315	"	E. & S.	140
316	"	W. & S.	135
317	"	W.	135
318	"	"	135
319	"	"	135
320	"	"	135
321	"	W. & N.	135
322	"	E. & N.	140
323	"	E.	140
324	"	"	140
425	4	"	140
426	"	"	140
427	"	E. & S.	140
428	"	W. & S.	135
429	"	W.	135
430	"	"	135
431	"	"	135
432	"	"	135
433	"	W. & N.	135
434	"	E. & N.	140
435	"	E.	140
436	"	"	140

COLLEGE ST. HOUSE.

1	2	E.	100
2	"	W. & N.	125
3	"	E. & S.	150
4	"	S. & W.	140
5	"	S.	100

SLATER HALL

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	South	1	E. S. & W.	2	\$260
2	"	"	E. & W.	1	200
3	"	2	E. S. & W.	2	260
4	"	"	E. & W.	2	245
5	"	3	E. S. & W.	2	250
6	"	"	E. & W.	2	245
7	"	4	E. S. & W.	1	175
8, 9	"	"	W.	1	194
10	North	1	E. & W.	2	245
11	"	"	E. W. & N.	2	245
12	"	2	E. & W.	2	245
13	"	"	W.	None	81
14	"	"	W. N. E.	2	260
15	"	3	W. & E.	2	240
16	"	"	W.	None	70
17	"	"	W. N. E.	2	250
18, 19	"	4	E. & W.	1	188
20	"	"	W. N. E.	1	160

DIRECTORY TO THE DORMITORIES

College Street House. Rooms 1 to 5.
 Hope College, South Division, Rooms 1 to 16.
 Hope College, Middle Division, Rooms 17 to 32.
 Hope College, North Division, Rooms 33 to 48.
 Maxey Hall, Rooms 201 to 436.
 Slater Hall, South Division, Rooms 1 to 9.
 Slater Hall, North Division, Rooms 10 to 20.
 University Hall, South Division, Rooms 1 to 34.
 University Hall, North Division, Rooms 35 to 61.
 Caswell Hall, North Division, Rooms 1 to 10.
 Caswell Hall, Middle Division, Rooms 11 to 26.
 Caswell Hall, South Division, Rooms 27 to 36.

CASWELL HALL.

No.	Division	Floor	Windows Face	Bedrooms	Rent
1	North ...	1	E. N. & W.	1	\$425
2	"	"	E. & W.	1	400
3	"	2	E. N. & W.	2	425
4	"	"	E. & W.	2	400
5	"	3	E. N. & W.	2	425
6	"	"	E. & W.	2	400
7	"	4	E. & N.	None	195
8	"	"	W. & N.	"	195
9	"	"	W.	"	165
10	"	"	E.	"	165
11	Middle ..	1	E.	"	175
12	"	"	W.	"	175
13	"	"	W.	"	175
14	"	"	E.	"	175
15	"	2	"	"	185
16	"	2	W.	"	185
17	"	"	"	"	185
18	"	"	E.	"	185
19	"	3	"	"	185
20	"	"	W.	"	185
21	"	"	"	"	185
22	"	"	"	"	185
23	"	4	E.	"	165
24	"	"	W.	"	165
25	"	"	"	"	165
26	"	"	E.	"	165
27	South ..	1	E. & W.	1	400
28	"	1	E. S. & W.	1	425
29	"	2	E. & W.	2	400
30	"	"	E. S. & W.	2	425
31	"	3	E. & W.	2	400
32	"	"	E. S. & W.	2	425
33	"	4	E.	None	165
34	"	"	W.	"	165
35	"	"	W. & S.	"	195
36	"	"	E. & S.	"	195

Financial Aid to Students

The aid which Brown University is able to offer students of limited means is granted under three conditions: (1) The recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average of *C* on the marking system now in use is expected; (3) the recipient must be in need of the financial assistance rendered. An application upon a blank form prepared for this purpose must be made to the Committee on Scholarships.

The aid rendered is of three kinds: (1) Loans; (2) Gifts; (3) Work for which wages are paid.

A. LOAN FUNDS

The University has two funds, available for this purpose:

I. The Alumni Loan Fund, now amounting to about \$4,300. This Fund was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a Loan Fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. A fund of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

B. FELLOWSHIP, SCHOLARSHIP AND AID FUNDS

1. Fellowships for Graduate Students

GRAND ARMY OF THE REPUBLIC FELLOWSHIP

In 1891 the Grand Army of the Republic, Department of Rhode Island, gave to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the

Republic Fellowship Fund. Only the income of the Fund can be used. This income is for the aid of a graduate of Brown University, of acknowledged excellence in scholarship and character, who before accepting this fellowship must be enrolled as a candidate for the degree of Doctor of Philosophy, unless he has already received that degree, and who will reside at Brown University and devote his entire time to the pursuit of advanced liberal study. The intention is that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of the fellowship, when a successor may be appointed for the remainder of the year. Holders of the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows; but the descendants of Union Veterans of the Civil War of 1861-65 are always to be preferred when the other qualifications of candidates are equal. No consideration touching the political or religious preferences of candidates can ever enter into the appointments. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be re-appointed. The President is authorized to make for the reception and use of the income from this Fund such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than the fifteenth of May. The Grand Army of the Republic Fellow for 1903-04 is

HOWARD DEXTER SMITH, Ph. B.

PHILADELPHIA ALUMNI FELLOWSHIP

This is another Fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

TEACHING FELLOWSHIPS

In addition to the foregoing, a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

2. Funded Scholarships

These are funds, presented to the University at various times, the incomes of which are awarded annually according to the conditions attaching to each. The early scholarships, established when the rate of interest was higher than at present, and the cost of education less, were each of \$1,000. There are now seventy-six scholarships of this amount, each with a designated name and yielding the beneficiary \$45 annually; with the exceptions indicated, they bear the names of their founders.

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS.

THE FOUR UNIVERSITY SCHOLARSHIPS.

THE PRESIDENT'S (SEARS) SCHOLARSHIP.

THE SIX ALVA WOODS SCHOLARSHIPS.

THE JAMES H. DUNCAN SCHOLARSHIP.

THE ISAAC DAVIS SCHOLARSHIP.

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP.

THE CROCKER SCHOLARSHIP, founded by Robert H. Ives and Thomas P. Ives, trustees.

THE CLARK SCHOLARSHIP, also founded by the Messrs. Ives.

THE GEORGE K. AND H. A. PEVEAR SCHOLARSHIP.

THE JOSEPH C. HARTSHORN SCHOLARSHIP I.

THE ROGERS HIGH SCHOOL SCHOLARSHIP, founded by William Sanford Rogers.

THE JAMES WHEATON SCHOLARSHIP.

THE CHARLES THURBER SCHOLARSHIP.

THE PARDON MILLER SCHOLARSHIP, founded by Mrs. Ann E. Miller.

THE HEZEKIAH S. CHASE SCHOLARSHIP.

THE WILLIAM BUCKNELL SCHOLARSHIP.

THE AUSTIN MERRICK SCHOLARSHIP, founded by Mrs. Olive E. Merrick.

THE HORATIO N. SLATER SCHOLARSHIP.

THE EARL P. MASON SCHOLARSHIP.

THE NEWPORT SCHOLARSHIP, founded by William Sanford Rogers.

THE ALEXIS CASWELL SCHOLARSHIP.

THE THREE (HENRY) JACKSON SCHOLARSHIPS.

THE MUMFORD SCHOLARSHIP, founded by Mrs. Louisa D. Mumford.

THE ALBERT DAY SCHOLARSHIP.

THE HENRY P. KENT SCHOLARSHIP.

THE ROMEO ELTON SCHOLARSHIP.

THE FIVE ANNIE E. WATERS SCHOLARSHIPS.

THE LEWIS FAIRBROTHER SCHOLARSHIP, founded by Mrs. Lewis Fairbrother.

THE GEORGE LAWTON SCHOLARSHIP.

THE JOHN P. CROZER SCHOLARSHIP, founded by Mrs. Margaret Bucknell.

THE JAMES Y. SMITH SCHOLARSHIP.

THE TWO S. S. BRADFORD SCHOLARSHIPS.

THE FRANCIS R. ARNOLD SCHOLARSHIP.

THE CORNELIA E. GREEN SCHOLARSHIP.

THE HENRY CLIFFORD KNIGHT SCHOLARSHIP, founded by Miss Amelia S. Knight, in memory of her brother, of the class of 1875.

THE THURSTON SCHOLARSHIP, founded by the Hon. Benjamin F. Thurston, LL. D., of the class of 1849.

THE RUFUS BABCOCK SCHOLARSHIP, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, D. D., of the class of 1821.

THE JAMES FLETCHER BLACKINTON SCHOLARSHIP, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton of the class of 1847.

THE FIVE WILLIAM A. WHITE SCHOLARSHIPS, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.

THE RICHARDS SCHOLARSHIP, founded by the Rev. William Coolidge Richards of the class of 1837.

THE SAMUEL WHITE DUNCAN SCHOLARSHIP, founded by Mrs. Mary Duncan Harris.

THE S. DRYDEN PHELPS SCHOLARSHIP, founded by the Rev. S. Dryden Phelps, D. D., of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

THE BENJAMIN HUTCHINSON JUDAH SCHOLARSHIP.

Besides the scholarships just mentioned there are the following of larger amounts:

THE TWO GEORGE J. SHERMAN SCHOLARSHIPS, paid from a fund of two thousand, five hundred and sixty-five dollars.

THE BARTLETT SCHOLARSHIP, of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

THE GLOVER SCHOLARSHIP, of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

THE REBECCA A. WHEELER SCHOLARSHIP, of fifteen hundred and seventy-one dollars, founded by the lady whose name it bears; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

THE SCHOLARSHIP OF THE CLASS OF 1838, of thirty-eight hundred dollars.

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP II, of two thousand dollars.

THE BANIGAN SCHOLARSHIPS I AND II, of three thousand dollars each, founded by the late Joseph Banigan of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

THE GEORGE IDE CHACE SCHOLARSHIP, of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

THE ABBY WHEATON CHACE SCHOLARSHIP, of four thousand dollars, also founded by Professor George Ide Chace; the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations and irreproachable character."

If either in the Senior or in the Junior class there chances to be no person fulfilling the requirements of either of these two scholarships, the proceeds of the scholarship for that year must, under the proper direction, be appropriated to the purchase of books for the library of the University.

THE JOHN L. LINCOLN SCHOLARSHIP, of twenty-five hundred dollars, and the TRUMAN BECKWITH SCHOLARSHIP of twenty-five hundred dollars, founded by the late Abby G. Beckwith.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfills the conditions.

THE WALTER G. WEBSTER SCHOLARSHIPS, founded by the Rev. Walter G. Webster of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the city of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

THE THREE S. W. MARSTON SCHOLARSHIPS, founded in the name of his father by Mr. Edgar L. Marston of New York. Each of these scholarships yields two hundred dollars a year. The first scholarship is open to any graduate of LaGrange College, who may be recommended by the President of that institution. The second is open to any graduate of William Jewell College under similar conditions. The third is open to any graduate of the Central High School in St. Louis, Mo., subject to the recommendation of the Principal.

The following scholarships have been in part established:

THE TWO GEORGE HALE BACON MEMORIAL SCHOLARSHIPS, paying each recipient \$150 a year, founded by George A. Bacon in the name of his father. The awards are to be made only to young men in need of assistance and to be given solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

3. Aid Funds

These are two in number, and their income is divided into scholarships of varying amounts, which are awarded under the general conditions applicable to all scholarships.

The Aid Fund, established by friends of the University in 1868, and now amounting to \$9,300.

The Daniel W. Lyman Fund for students, established by the late Daniel W. Lyman, and now amounting to \$72,250.

4. University Scholarships

In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. This amount at present exceeds \$15,000, and is used for the establishing of University Scholarships, which are of three grades:

(1) A small number yielding each \$50 a term or \$150 a year, paying the whole college bill for tuition and incidentals, awarded to a few Juniors and Seniors of specially high scholarship.

(2) A number yielding each \$35 a term or \$105 a year.

(3) A number yielding each \$20 a term or \$60 a year, used in part to supplement the smaller endowed scholarships, and also for those needing relatively less assistance.

The University Scholarships are taken directly from the college treasury and therefore use funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of them will regard them as in a certain sense a loan, and will at some subsequent time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

C. SERVICE

The University is able to give employment to a number of students as monitors, assistants in the library and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are required of any student, except in specified cases, and the compensation is made at definite rates. At present about \$6,000 a year is appropriated for service, and employment is given to about eighty students, who receive each amounts varying from \$20 to \$40 a term. The University also coöperates with the Young Men's Christian

Association in efforts to secure employment for students from business houses and residents of the city.

The administration of the scholarship system is in the hands of a Committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the Committee and is also charged with the administration of the Service system.

Applications for aid for a given academic year should be filed with the Dean before May 1st preceding. Action upon all applications is taken by the Committee before July 1st.

Premiums, Prizes and Honors

FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums

These are derived from the income of a fund presented to the University in 1843 by President Wayland. They are awarded each year to those members of the Freshman class who upon special examination are found to have attained the highest excellence in the studies required for admission to the University in Greek, Latin and French. First and Second Premiums are awarded in each of these studies.

The examinations for the premiums deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Great importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate and idiomatic English.

The examination in Greek occurs on the second Saturday of the first term, that in Latin on the third Wednesday, and that in French on the fourth Wednesday.

The award of these premiums in 1903 was as follows:

GREEK

The First Premium to ZECHARIAH CHAFEE, JR., instructed in the Hope Street High School, Providence.

The Second Premium to DAVID WILKINSON SMITH, instructed in the High School, Woonsocket.

LATIN

The First Premium to ZECHARIAH CHAFEE, JR., instructed in the Hope Street High School, Providence.

The Second Premium to DAVID WILKINSON SMITH, instructed in the High School, Woonsocket.

FRENCH

The First Premium to **RAYMOND FRANK TIFFT**, instructed in the English High School, Somerville, Mass.

A collateral First Premium for an examination of equal merit to **LOUISE BAGGOTT MORGAN**, instructed in the Hope Street High School, Providence.

The Second Premium to **GEORGE HURLEY**, instructed in the Hope Street High School, Providence.

A collateral Second Premium for an examination of equal merit to **GERTRUDE MAY CLARK**, instructed in the Hope Street High School, Providence.

The Hartshorn Premiums

These are derived from the income of a fund of one thousand dollars, presented to the University in 1872 by Joseph C. Hartshorn, A. M., of the class of 1841. The income furnishes three premiums, which are awarded to those members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination occurs on the third Saturday of the first term.

The award of these premiums in 1903 was as follows:

The First Premium to **ZECHARIAH CHAFEE, JR.**, instructed in the Hope Street High School, Providence.

The Second Premium to **WALTER CLIFTON SLADE**, instructed in the English High School, Providence.

A collateral Second Premium for an examination of equal merit to **LOUISE SCHUTZ**, instructed in the Classical High School, Providence.

The Third Premium to **EARLE ARNOLD HARRINGTON**, instructed in the Hope Street High School, Providence.

FOR EXCELLENCE IN COLLEGE STUDIES

The Carpenter Prizes for Elocution

These prizes are derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter, and are awarded annually to the three members of the Sophomore class to whom are assigned, respectively, the first, the second

and the third rank of excellence in elocution. The contest for 1904 will be held in Manning Hall on May 9th.

The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the first day of February. A preliminary contest for the purpose of selecting the speakers takes place in the latter part of the winter term; all arrangements for it are in the hands of the Professor of Public Speaking.

The committee of award consists of five members—the Professor of Public Speaking, who is the chairman, two persons elected by the Corporation, and two persons elected by the Sophomore class during the first term of the year. No one who is or has been a member of the class is eligible.

In 1903 the prizes were awarded as follows:

The First Prize to CHARLES HENRY KINGMAN.

The Second Prize to WILLARD LESLIE PRATT.

The Third Prize to GLENN WILLIAM WOODIN.

The Hicks Prizes for Excellence in Debate

These prizes, established by the Hon. Ratcliffe Hicks of the class of 1864, are annually awarded as follows:

Two prizes of forty dollars each, one in each of the two series of contests for the selection of the representatives of the University in the inter-collegiate debates. The prize is, in each instance, given to the man showing the greatest ability both in the preliminary trials and in the final trial, which is a formal debate with three men on a side. In awarding the prize, regard is given to thought, style, and delivery. The judges are three, appointed by the Debating Union.

A first prize of thirty dollars and two prizes of twenty dollars each, to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University

chooses from the preliminary contestants at least a month before the public debate. The judges in the public debate are three, one appointed by the President, and one by each competing class. The prizes are awarded irrespective of the decision upon the debate as a whole. The first prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1903 prizes were awarded as follows:

A First Prize to EUGENE LA VERNE MCINTYRE

A Second Prize to WALTER EVERETT PRINCE

The Dunn Premium

The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of the late Professor Robinson Potter Dunn, D. D., is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them.

In 1903 the premium was awarded to

ALBERT BENJAMIN WEST

The Carpenter Premiums

These two premiums are derived from the income of a fund established in 1867 by Thomas Carpenter and Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life—ability, character and attainment."

In 1903 the premiums were awarded to

THEODORE ARTHUR CORNELL

and

ARTHUR MELVIN WINSLOW

The Howell Premium

This fund, amounting to one thousand dollars, was presented to the University in 1867 by the late Gamaliel Lyman Dwight. The income is given at the close of the second term of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium, a student must, each term from the Freshman year to the end of the second term in the Senior year, select at least one of the elective studies offered in Pure or Applied Mathematics.

In 1903 the premium was awarded to

ARTHUR MELVIN WINSLOW

The Class of 1873 Prize

A fund of one thousand dollars, completed in 1898, has been presented to the University by the class of 1873, on the condition that its income should be used as a prize for an essay. The prize is annually offered for competition to members of the Senior class, the subject assigned by the department concerned being of a historical nature one year and of a philosophical nature the next. In 1902-03 the subject was: "The Criterion of Truth." The prize was awarded to

CARL CUSTER CUTLER

For 1903-04 there has been assigned a historical subject, "The Public Life of Aaron Burr." Essays on this subject submitted in competition for the prize, must contain not less than 10,000 words.⁴⁵ They must show intelligent use and comparison of authorities, and have appended to them a full list of the works consulted. Each essay must bear an assumed name, and be accompanied by a sealed envelope containing the name of the writer. Essays submitted in competition for the prize must be deposited with the Registrar not later than May 15th, 1904.

The Foster Premium in Greek

This premium is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Hon. Lafayette Sabine Foster, LL. D., of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior class, will be held early in May, 1904. Candidates will be examined in the Oration on the Crown.

On Commencement Day, 1903, the President announced the award of the premium to

PERCIVAL ROGERS BAKEMAN

The Lucius Lyon Premiums in Latin

These are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded only as the result of a special examination held during the last term of the Senior year, and only for real merit. The examination may relate to the Latin language, Roman literature, Roman history, or partly to one of these subjects and partly to another or to both the others. The President of the University and the head of the Latin department prescribe for admission to the examination such conditions as in their judgment will secure the best results.

In 1903 the premiums were awarded as follows:

The First Premium to REGINALD LANGDON BROWN

The Second Premium to WILLIAM THOMPSON HASTINGS

The Third Premium to AGIDE PIRAZZINI

The William Gaston Scholarship

This fund of five thousand dollars was established in 1899 by the widow and children of the late Hon. William Gaston of the class of 1840. Its income is awarded annually by the Faculty upon absolute merit, without reference to financial condition.

For 1903-04 the scholarship has been awarded to

ALBERT BENJAMIN WEST

Appointments for Commencement

Every member of the Senior class is allowed to present an oration for Commencement. The oration must be deposited in the Registrar's office by noon of the first Wednesday in April; it must be typewritten and signed with the author's name; it shall not contain more than fifteen hundred words. From these orations a committee consisting of the President of the University, the Professor of English Literature, the Professor of Rhetoric, the Professor of Public Speaking, and a fifth member chosen each year by the Faculty, select not more than ten orations for delivery at Commencement. Before Commencement each speaker is required to hand to the Professor of English Literature a typewritten copy of his oration for preservation in the University Library.

The speakers appointed in 1903 were:

WILLIAM THOMPSON HASTINGS

HENRY OTIS GREEN

CLARENCE CURTIS GLEASON

MAURICE BENJAMIN RICH

The Gaston Prize Medal for Excellence in Oratory

A fund of three thousand dollars, established in 1894 as a memorial to the Hon. William Gaston, LL. D., of the class of 1840, annually provides a gold medal bearing the name "William Gaston," to be awarded to that member of the graduating class "who shall write and at Commencement pronounce in English the best oration." The committee of award consists of three persons, not members of the Faculty—one selected by the President of the University, one by the Faculty, and one by the contestants.

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Candidates for the degree of Bachelor of Science in Civil Engineering, Mechanical Engineering or Electrical Engineering are, in their Senior year, eligible to membership in the honorary scientific society, Sigma Xi, provided they have "given promise of marked ability in those lines of work which it is the object of the Society to promote."

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Committee on Nominations

Prof. WINSLOW UPTON, A. M., Prof. JOHN HOWARD APPLETON, Sc. D.,
Prof. LEONARD WORCESTER WILLIAMS, Ph. D., Prof. WILLIAM
HERBERT KENERSON, M. E., Prof. OTIS EVERETT RANDALL, Ph. D.,
Prof. JOHN EDWARD HILL, Sc. M., C. E. M.

Brown University Alumni

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CHARLES PATTISON BENNETT, A. B.

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President, F. B. Greene, '72; *First Vice-President*, H. K. Porter, '60; *Second Vice-President*, Jefferson Shiel, '82; *Secretary*, W. H. Bennett, h. '84; *Treasurer*, Frank Mauran, '85; *Executive Committee*, H. P. Dormon, '96; J. B. Porter, '90; P. T. Fort, Ex. '95.

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CLEVELAND

President, J. H. Hoyt, '74; *Vice-President*, E. L. Thurston, '81; *Secretary and Treasurer*, F. P. Whitman, '74; *Executive Committee*, N. S. Calhoun, '79; J. S. Greene, '82; C. G. King, Jr., '84.

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President, E. W. Coy, '58; *Vice-President*, W. H. Pabodie, '55; *Secretary*, S. W. Smith, Jr., '80.

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President, W. B. Bogert, '82; *Vice-President*, A. H. Nelson, '58; *Secretary and Treasurer*, F. L. Morse, '86.

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President, E. N. Bucknam, '65; *Vice-President*, J. F. Watts, '95; *Treasurer*, F. W. Mears, '95.

ST. LOUIS

President, D. S. H. Smith, '62; *Secretary*, A. L. Abbott, '80; *Treasurer* J. B. Edwards, '96.

COLORADO

President, F. E. Brooks, '83; *Treasurer*, S. L. Caldwell, '75; *Secretary*, C. P. Bennett, '79.

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PHILIPPINE ISLANDS

Secretary, R. F. Friedel, '01; *Treasurer*, T. H. Kenworthy, '01.

Degrees Conferred in 1903

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

ALEXANDER HEWES ABBOTT
SHERMAN ALDEN ALLEN
EDGAR LOUIS ASHLEY
CHARLES HERVEY BAILEY
PERCIVAL ROGERS BAKEMAN
HARVEY ALMY BAKER
MERLE TAFT BARKER
ROBERT LINCOLN BARROWS
HARRY LOTHROP BATES
EDWARD BABCOCK BEAM
DANIEL EVERETT BELLOWES
CHARLES HERBERT BENNETT
FREDERICK JOSEPH BERTH
ARTHUR EUGENE BROWN
HOWARD EARLE BROWN
REGINALD LANGDON BROWN
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JAMES GARFIELD CLIFFORD
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FRED JUDSON COX
CARL CUSTER CUTLER
FRANK LAWRENCE DILLON
JAMES WARREN DYSON
STEPHEN HOWARD EASTON
CLARENCE MILTON EDDY

GEORGE WILBUR EDDY
FRANK HENRY EHMKE
CLARENCE CURTIS GLEASON
WILLIAM ALBION HART
WILLIAM THOMSON HASTINGS
LESLIE ROBERT HICKS
HARRISON BUCKLIN HILL
JOSHUA HENRY JONES, JR.
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ROBERT BELL LONGWELL
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RALPH ATHERTON SHERWOOD
LESTER BURRELL SHIPPEE
TILDEN HENDRICKS STEARNS
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MANNING EUGENE VAN NOSTRAND
SAMUEL LEONIDAS WADE
GEORGE WATERHOUSE
HENRY WILSON WHITE
FRANCIS ELLIOTT YOUNG

RUBY MARION ATWOOD
ALICE MORSE BARRETT
ANNA BURNSIDE
ALICE SHEEHAN CARROLL
ALICE MINA HERSEY
BESSIE ALLEN HOOD
HESTER JANE MERCER

ETHEL ELLA RICH
LILLIE LEONARETTA SCHOLFIELD
ALMA STOCKARD
GERALDINE ETHELWYN STREET
HELEN WAKELY TRAVER
HELEN WHITMARSH

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

ROBERT ALDRICH
 WILLIAM WALTER ANDREW
 LOUIS FORISTALL BAKER
 THOMAS AUSTIN BARRY
 CHARLES FRANKLIN BATES
 ALFRED VARNEY BLACKSTONE
 PERCY HOWARD BLANDING
 RICHARD WARREN BLANDING
 THOMAS DALTON BROWN
 CLARENCE VAN REYNEGOM
 BUMSTED
 ELMER ELLSWORTH BUTLER
 JOHN HUTCHINS CADY
 MURRAY HERBERT CANN
 HARRY MOSES COBB
 LEWIS HARTSOUGH CONANT
 FRED MILTON COOK
 LESTER EARL DODGE
 THOMAS ALBERT FENTON
 ISAAC FLEMING
 PERCY WINCHESTER GARDNER
 JAMES LAWRENCE GARTLAND
 HENRY OTIS GREEN
 PHILIP BARDWELL HADLEY
 CHARLOTTE ANTHONY
 JESSIE MAY BARBOUR
 JANE BARCLAY
 MABEL IRENE BARTLETT
 EDNA GEORGIANA CALEF
 ANNIE FRANCES CHEEVER
 ANNIE MABEL COBB

WILLIS WARREN HARRIMAN
 EDWARD WINSLOW HOLMES
 JEREMIAH HOLMES
 with Class of 1902
 NATHANIEL ORSON HOWARD
 WILLIAM ROSS LAWTON
 EDWARD JOSEPH McCAFFREY
 CHARLES ANTHONY McDONALD
 HAROLD AUSTIN MACKINNEY
 WILLIAM MACKINTOSH MACNAIR
 FRED ALLEYNE OTIS
 ARTHUR LLOYD PHILBRICK
 JAMES EDWARD QUINN
 WILLIAM ORIN RICE
 MAURICE BENJAMIN RICH
 HOWARD DEXTER SMITH
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 ALBERT WILLIAM HAYDEN THOMPSON
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 EDWARD NELSON WHITE
 SAMUEL HALL WHITLEY
 ARTHUR MELVIN WINSLOW
 TRUMAN DOANE WOODBURY
 HELEN ELIZABETH HERSEY
 GRACE FISHER LEONARD
 BESSIE ALBERTA LOUD
 MARY ELIZABETH MERCER
 ETHEL MAY MUNRO
 EDITH FIELD WILCOX

THE DEGREE OF BACHELOR OF SCIENCE

ON

WALDO HENRY FISH

GAY NICHOLS FREEMAN

THE DEGREE OF CIVIL ENGINEER

ON

CLIFFORD EUGENE CARR
 HENRY BERNARDIN DROWNE
 LIONEL HENRY PEABODY, JR.
 HENRY WALLACE PRATT

TIMOTHY JOSEPH SHEEHAN
 GEORGE EVERSON WEEDEN
 with Class of 1901

THE DEGREE OF MECHANICAL ENGINEER

ON

DANIEL HURLEY

ALEXANDER JOSEPH LARKIN

FREDERIC MASON KINSLEY

WILLIAM THOMAS MURPHY

WILLIAM BENJAMIN SATTERLEE

THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL
ENGINEERING

ON

AZARIAH FOSTER CROWELL, JR.

ROBERT FORSTER

THE DEGREE OF BACHELOR OF ARTS

in connection with their classes

ON

EDGAR JOHN DOE

HARRY WILDS JONES

of the Class of 1864

of the Class of 1882

THE DEGREE OF MASTER OF ARTS

in connection with his class

ON

LOUIS ALEXANDER FALLIGANT, of the Class of 1857

DEGREES AFTER EXAMINATION

THE DEGREE OF MASTER OF ARTS

ON

RUTH APPLETON, A. B.

MARY BEECHER LEONARD, Ph. B.

CHARLES RAYMOND AUSTIN, A. B.

WALTER ESTES MCGOWAN, A. B.

VAHAN SIMON BABASINIAN, A. B.

ERNEST TROWBRIDGE PAINE, A. B.

JAMES LEONARD BOOTH, A. B.

WALTER CLARKE PHILLIPS, Ph. B.

MARY JOY BOURNE, A. B.

EVERETT DUNCAN RAMSDEN, A. B.

FLORENCE WILLIAM BURKE, A. B.

MARGARET ROYS, A. B.

HARRY SMITH CLARK, A. B.

CARRIE MAE SEARLE, A. B.

LATHAM CLARKE, Sc. B.

PHILIP DARRELL SHERMAN, A. B.

CAROLINE IDA DOANE, A. B.

KENTARO SHIOI, A. B.

NORMAN ARMIN DUBOIS, Sc. B.

MARY RANDALL STARK, A. B.

CHARLES RAYMOND HASLAM, A. B.

RALPH CAMERON THOMPSON, Ph. B.

CANDACE EVELEEN HATHAWAY,

BESSIE SARAH WARNER, A. B.

Sc. B.

HENRY HERBERT WATERMAN, A. B.

ARTHUR GEORGE HOST, A. B.

EVERETT THOMAS WHITFORD, A. B.

ETHEL CLARE JAMESON, Ph. B.

ERNEST TOWNSEND WILLIAMSON, A. B.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

CALEB ALLEN FULLER, Ph. B., A. M.

SUBJECT: Bacteriology, Comparative Anatomy.

THESIS: The Distribution of Sewage in the Waters of Narragansett Bay
and its Relation to the Oyster Beds.

WILLIAM JONES, A. B., A. M.

SUBJECT: History, Political Economy.

THESIS: The Transition of Providence from a Commercial to a Manu-
facturing Community.

GEORGE FREEMAN PARMENTER, Sc. B.

SUBJECT: Chemistry, Physiology.

THESIS: The Action of Acetic Anhydride on Acids of the Phenylpropionic
Series.

MICHAEL XAVIER SULLIVAN, A. B., A. M.

SUBJECT: Comparative Anatomy, Chemistry.

THESIS: Synthetic Culture Media and the Biochemistry of Bacterial
Pigments.

RALPH WINFRED TOWER, A. B., A. M.

SUBJECT: Comparative Anatomy, Bacteriology.

THESIS: The Comparative Anatomy and Physiology of the Swim-Bladder
of Fishes.

HONORARY DEGREES

THE DEGREE OF MASTER OF ARTS

ON

JOHN BYRON DIMAN

JAMES CHARLES MONAGHAN

THE DEGREE OF DOCTOR OF MUSIC

ON

GEORGE COLEMAN GOW

THE DEGREE OF DOCTOR OF LETTERS

ON

ISAAC NELSON FORD

THE DEGREE OF DOCTOR OF DIVINITY

ON

AMOS TURNER ASHTON
EVERETT DOUGHTY BURR
EDWIN PICKETT FARNHAM
DANIEL GOODWIN

THE DEGREE OF DOCTOR OF LAWS

ON

WILLIAM VAIL KELLEN
ANDREW JACKSON MONTAGUE
THEODORE SALISBURY WOOLSEY

THE DEGREE OF DOCTOR OF LAWS

ON

WOODROW WILSON

Students

GRADUATES

- Ernest Spencer Abbott *Dalton, Kansas* 87 Congdon St.
A. B. (*Ottawa University*) 1903. Greek, Philosophy, English, Latin. Enrolled candidate for A. M.
- Adelaide Harris Arnold 44 Clay St., Pawtucket
Ph. B. (*Brown University*) 1898. Pedagogy, English, History of Art. Registered candidate for A. M.
- James Hope Arthur Attleboro, Mass.
Ph. B. (*Brown University*) 1897. History. Registered candidate for A. M. in absentia.
- Edgar Louis Ashley, *Foxboro, Mass.* 428 Maxey Hall
A. B. (*Brown University*) 1903. German, French, English. Assistant in German. Enrolled candidate for A. M.
- Charles Raymond Austin, *Providence,* 27 Halsey St.
A. B. (*Brown University*) 1902, A. M. 1903. Latin, Greek, English. Assistant in Greek. Registered candidate for Ph. D.
- Vahan Simon Babasianian *Samsoun, Turkey* 100 Battey St.
A. B. (*Anatolia College*) 1895, D. B. (*Hartford Theological Seminary*) 1900, A. M. (*Brown University*) 1903. Chemistry, Comparative Anatomy. Instructor in Chemistry. Registered candidate for Ph. D.
- William John Ballou Tougaloo, Miss.
A. B. (*Brown University*) 1897, D. B. (*Hartford Theological Seminary*) 1900. Social and Political Science. Instructor in Tongaloo University. Registered candidate for A. M. in absentia.
- Jane Barclay *Guelph, Ontario* 406 Brook St.
Ph. B. (*Brown University*) 1903. English, German, Spanish. Enrolled candidate for A. M.
- Ernest Warren Barnes, *Tabor, Iowa* 62 George St.
Ph. B. (*Tabor College*) 1901. Comparative Anatomy, Philosophy. Enrolled candidate for Ph. D.
- Alice Morse Barrett, *Providence* 207 Williams St.
A. B. (*Brown University*) 1903. English, Biblical Literature. Registered candidate for A. M.
- Charles Franklin Bates, *Cattaraugus, N. Y.* 29 Benevolent St.
Ph. B. (*Brown University*) 1903. Education.
- Frederick Elias Bragdon Saylesville
A. B. (*Wesleyan University*) 1891. Education.
- Reginald Langdon Brown, Phenix
A. B. (*Brown University*) 1903. English, German, History. Enrolled candidate for A. M.

- Gertrude Edith Bunn, *Ottawa, Kansas* 66 Benefit St.
Ph. B. (*Ottawa University*) 1903. English, History. Enrolled candidate for A. M.
- Arthur Deerin Call, *Ansonia, Conn.*
Ph. B. (*Brown University*) 1896. Philosophy, Sociology, Education. Enrolled candidate for A. M. in absentia.
- Ernest Palmer Carr, *North Dartmouth, Mass.*
A. B. (*Brown University*) 1901. Education, History. Registered candidate for A. M. in absentia.
- Alice Sheehan Carroll, *Providence,* 131 Tockwotton St.
A. B. (*Brown University*) 1903. Education, English, Latin. Registered candidate for A. M.
- Edith Ray Clapp, *Providence,* 133 Smith St.
Ph. B. (*Brown University*) 1900, A. M. 1901. Education.
- Agnes Elizabeth Clark, *Providence,* 121 Pleasant St.
A. B. (*Brown University*) 1899. Botany.
- Mary Katherine Conyngton, *Providence,* 32 Westminster St.
A. B. (*Wellesley College*) 1894, A. M. 1899. Social Science.
- Theodore Arthur Cornell, *Providence,* 123 Thayer St.
A. B. (*Brown University*) 1903. Education, Mathematics, Physics. Assistant in Mathematics. Enrolled candidate for A. M.
- Ella Frances Cory, *Providence,* 51 Arch St.
Ph. B. (*Brown University*) 1902. German, Romance Languages. Enrolled candidate for A. M.
- Clinton Harvey Currier, *Manchester, N. H.* University 17
Ph. B. (*Brown University*) 1898, A. M. 1899. Mathematics, Astronomy. Instructor in Mathematics. Registered candidate for Ph. D.
- James Mercer Davis, *Crozer Theological Seminary, Chester, Pa.*
A. B. (*Brown University*) 1902. Biblical Literature, Philosophy. Enrolled candidate for A. M.
- Norman Armin Dubois, *Fall River, Mass.* Brunonia A
Sc. B. (*Mass. Institute Technology*) 1901. Chemistry, Astronomy, Physics. Enrolled candidate for Ph. D.
- James Warren Dyson, *Providence,* 75 Knowles St.
A. B. (*Brown University*) 1903. Education, German, Chemistry. Enrolled candidate for A. M.
- Frank Henry Ehmke, *Silver Creek, N. Y.* Friends' School
A. B. (*Brown University*) 1903. Philosophy. Registered candidate for A. M.
- Maude Farnum, *Providence,* 112 Bridgham St.
Ph. B. (*Brown University*) 1902. History, Education, Latin. Registered candidate for A. M.
- Thomas Albert Fenton, *Providence,* 16 Young Orchard Ave.
Ph. B. (*Brown University*) 1903. Biblical Literature, Philosophy. Registered candidate for Ph. D.
- Charles Kenworthy Francis, *Spartanburg, S. C.*
Ph. B. (*Brown University*) 1899. Chemistry, Social Science. Professor of Chemistry, Converse College. Enrolled candidate for A. M. in absentia.

Andrew Little Fraser, Rochester Theological Seminary, Rochester, N. Y.
A. B. (*Brown University*) 1902. History, English, Biblical Literature. Registered candidate for A. M. in absentia.

Harriet Peirce Fuller, Providence, 170 Prospect St.
A. B. (*Brown University*) 1881. English, Latin, History of Art. Registered candidate for A. M.

Lillian May Gamwell, Providence, 73 Taber Ave.
A. B. (*Brown University*) 1902. English, Germanic and Romance Languages. Enrolled candidate for A. M.

Charles Israel Gates, 5 Jay St., Westerly
A. B. (*Brown University*) 1899. English, History, Education. Registered candidate for A. M. in absentia.

Emma Helena Gregory, Providence, 29 Ann St.
A. B. (*Wellesley College*) 1891, A. M. (*Brown University*) 1901. Latin.

Philip Bardwell Hadley, Shelburne Falls, Mass. Rhode Island Hall
Ph. B. (*Brown University*) 1903. Comparative Anatomy, Bacteriology. Registered candidate for Ph. D.

Henry Jewett Hall, Providence, 43 Benevolent St.
A. B. (*Brown University*) 1900, A. M. 1902. Psychology, Philosophy. Instructor in Psychology. Registered candidate for Ph. D.

William Thomson Hastings, Feeding Hills, Mass. 52 Barnes St.
A. B. (*Brown University*) 1903. English, Greek, Latin. Assistant in English. Enrolled candidate for A. M.

Helen Elizabeth Hersey, Providence, 148 Broad St.
Ph. B. (*Brown University*) 1903. History, English, German. Registered candidate for Ph. D.

Lenora Hill, Providence, 221 Broad St.
Ph. B. (*Brown University*) 1902. German, Philosophy, History. Enrolled candidate for A. M.

Will Russell Howard, Belfast, Maine Friends' School
Sc. B. (*University of Maine*) 1882. Botany.

Alice Merrill Howland, Hope
A. B. (*Vassar College*) 1896. Social Science.

Daniel Hurley, Providence, 36 East George St.
M. E. (*Brown University*) 1903. Mechanical Engineering.

Joseph Waite Ince, Providence, 108 Chester Ave.
A. B. (*Brown University*) 1902. Chemistry. Instructor in Chemistry. Enrolled candidate for A. M.

Grace Fisher Leonard, Providence, 156 Broad St.
Ph. B. (*Brown University*) 1903. History. Registered candidate for A. M.

Mary Beecher Leonard, Providence, 156 Broad St.
Ph. B. (*Brown University*) 1899, A. M. 1903. Botany.

Arthur Stephen Libby, Dexter, Maine 72 College St.
Ph. B. (*Bowdoin College*) 1902, A. B. (*University of Maine*) 1903. History, German, Instructor in French. Registered for Ph. D.

- Katherine Gertrude Lynch, *North Attleboro, Mass.* 64 Allston St.
A. B. (*Smith College*) 1894, A. M. (*Brown University*) 1899. Social Science,
History.
- Harold Lester Madison, *East Greenwich*
Ph. B. (*Brown University*) 1901, A. M. 1902. Comparative Anatomy,
Botany. Enrolled candidate for Ph. D.
- Minnie Catherine Mahy, *Providence,* 40 Fourth St.
A. B. (*Brown University*) 1900, A. M. (*University of Nebraska*) 1901. English,
Philosophy. Registered candidate for Ph. D.
- Earl Northup Manchester, *Factoryville, Pa.* 66 Meeting St.
A. B. (*Brown University*) 1902. English, Music. Second Assistant Librarian.
Registered candidate for A. M.
- Louis Hamilton Meader, *Providence,* 88 Andem St.
A. B. (*Dartmouth College*) 1878, A. M. (*Brown University*) 1894, Ph. D. 1900.
Social Science.
- Myrtis Alida Millikin, *Providence,* 460 Pine St.
A. B. (*Brown University*) 1902. Philosophy, Social and Political Science,
Political Economy. Enrolled candidate for A. M.
- Norman Allen Moss, 42 Barry St., *Dorchester, Mass.*
A. B. (*Brown University*) 1900. English, Pedagogy. Registered candidate
for A. M. in absentia.
- Clarence Elnathan Norris, *Worcester, Mass.* 59 University Hall
A. B. (*Brown University*) 1900, A. M. 1902. Germanic Languages, English
and Romance Languages. Instructor in German. Registered candidate
for Ph. D.
- Roscoe Milliken Packard, *Atlantic, Mass.* 12 Congdon St.
A. B. (*Western Reserve University*) 1899, A. M. 1900. Mathematics, Physics,
Astronomy. Instructor in Mathematics. Registered candidate for Ph. D.
- Ernest Victor Page, 74 Montello St., *West Roxbury, Mass.*
A. B. (*Brown University*) 1896. Political Economy, Political Science, Social
Science. Registered candidate for A. M. in absentia.
- Ernest Trowbridge Paine, *Central Falls,* 18 Hope College
A. B. (*Brown University*) 1901, A. M. 1903. Latin.
- Henry Robinson Palmer, *Stonington, Conn.* Journal Office
A. B. (*Brown University*) 1890. English, History of Art. Registered candi-
date for A. M. in absentia.
- Harriet Edith Pierce, *Providence,* 39 Daboll St.
Litt. B. (*Smith College*) 1894. German, History of Art. Enrolled candidate
for A. M.
- Agide Pirazzini, 218 Witherspoon Building, *Philadelphia, Pa.*
A. B. (*Brown University*) 1903. English, Hebrew, French. Registered
candidate for A. M. in absentia.
- Ella Artemisia Pollard *Attleboro, Mass.*
Ph. B. (*Brown University*) 1902. Romance Languages, German. Enrolled
candidate for A. M.
- Thomas Edmund Burt Pope, *Bureau of Fisheries, Washington, D. C.*
Ph. B. (*Brown University*) 1902. Comparative Anatomy. Registered
candidate for A. M. in absentia.

- Carrie Ethel Provan, *South Boston, Mass.* 345 Hope St.
A. B. (*Boston University*) 1903. German, Latin. Enrolled candidate for A. M.
- Lemuel Charles Raiford, *Agricultural College, Miss.*
Ph. B. (*Brown University*) 1900. Chemistry, Comparative Anatomy. Registered candidate for A. M. in absentia.
- Jared Harvey Randall, *Rangoon, Burma*, 1034 Mineral Spring Ave., Geneva
A. B. (*Brown University*) 1897, A. M. 1901. History, English, Education. Registered candidate for Ph. D.
- Louis Albert Reese, *Providence,* 77 Dyer St.
Ph. B. (*Ottawa University*) 1900, A. M. (*Brown University*) 1902. History, Economics. Registered candidate for Ph. D.
- Ethel Ella Rich, *Providence,* 375 Blackstone St.
A. B. (*Brown University*) 1903. Education, Latin. Registered candidate for A. M.
- Herbert Lee Sackett, *Smith's Mills, N. Y.* 1 Hope College
Chemistry, German. Enrolled candidate for A. M.
- Lillie Leonaretta Scholfield, *Providence,* 49 Beacon Ave.
A. B. (*Brown University*) 1903. English, Philosophy. Registered candidate for A. M.
- Alice Rachel Sheppard, *Providence,* 38 Congdon St.
A. B. (*Boston University*) 1892, A. M. (*Brown University*) 1900. German.
- Philip Darrell Sherman *Pawtucket* 40 Hope College
A. B. (*Brown University*) 1902, A. M. 1903. English, German. Registered candidate for Ph. D.
- George Herbert Sherwood, *77th St. and 8th. Ave., New York, N. Y.*
A. B. (*Brown University*) 1898, A. M. 1899. Comparative Anatomy, Physiology. Enrolled candidate for Ph. D.
- Lester Burrill Shippee, *East Killingly, Ct.* 39 Hope College
A. B. (*Brown University*) 1903. Education, German, Romance Languages. Enrolled candidate for A. M.
- Ruth Eleanor Slade, *Providence,* 95 Andem St.
Litt. B. (*Smith College*) 1901. Chemistry, Education.
- Howard Dexter Smith, *North Scituate,* 30 Hammond St.
Ph. B. (*Brown University*) 1903. Chemistry, Comparative Anatomy. Enrolled candidate for A. M.
- Alma Stockard, *Providence,* 95 Benevolent St.
A. B. (*Brown University*) 1903. Latin, Education. Enrolled candidate for A. M.
- Elsie Marion Straffin, *Brockton, Mass.* 68 Lloyd Ave.
Greek, Mathematics. Enrolled candidate for A. M.
- Charles Edward Tilley, *Providence,* 8 Elton St.
A. B. (*Amherst College*) 1892, A. M. 1895. Physics, Mechanical Engineering, Education.
- Harriet Barrows Utter, *Providence,* 59 Keene St.
A. B. (*Brown University*) 1899. Education, English, Astronomy. Enrolled candidate for A. M.

- Mary Drew Vaughan, *Providence*, 150 Pitman St.
Ph. B. (*Brown University*) 1897. Comparative Anatomy, Social and Political Science.
- Bessie Clarinda Verder, *Rutland, Vt.* Wheaton Seminary, Norton, Mass.
Sc. B. (*Middlebury College*) 1898. Education, Chemistry. Registered candidate for A. M.
- Bessie Sarah Warner, *Providence*, 50 University Ave.
A. B. (*Smith College*) 1895, A. M. (*Brown University*) 1903. Education.
- Albert Benjamin West, *Providence*, 57 Roanoke St.
Greek, Elementary Law, Philosophy. Enrolled candidate for A. M.
- Allan Ferguson Westcott, *Alexandria Bay, N. Y.* 120 Congdon St.
Ph. B. (*Brown University*) 1903. English, German. Assistant in German. Enrolled candidate for A. M.
- Jessie Wheeler, *East Wallingford, Vt.* 73 Mathewson St.
A. B. (*Brown University*) 1901. English. Registered candidate for A. M.
- Mary Greene Wilbur, *Providence*, 266 Broad St.
Ph. B. (*Brown University*) 1899. German, Romance Languages. English. Enrolled candidate for A. M.
- Jessie Wilson, Rumford
Ph. B. (*Brown University*) 1898, A. M. 1899. History, Political Economy. Registered candidate for Ph. D.
- Arthur Melvin Winslow, *Providence*, 68 Chapin Ave.
Ph. B. (*Brown University*) 1903. Mathematics, Physics, Astronomy. Assistant in Mathematics. Enrolled candidate for A. M.

UNDERGRADUATES

SENIORS—CLASS OF 1904

NAME	RESIDENCE	ROOM
Austin Ketcham Allen	<i>Stanfordville, N. Y.</i>	Hope 6
Everard Appleton	<i>Providence</i>	Maxcy 207
William Day Appleton	<i>Providence</i>	209 Angell St.
Edmund Kingsley Arnold	<i>Touisset, Mass.</i>	Maxcy 322
Irving Judson Beckwith	<i>Oxford, N. Y.</i>	Hope 14
Wallace King Belding	<i>Malone, N. Y.</i>	University 40
Ralph Hervey Bevan	<i>Providence</i>	Hope 40
Edward Joseph Black	<i>Providence</i>	Maxcy 316
Otis Edward Bloomquist	<i>Falconer, N. Y.</i>	Hope 3
Ilsley Boone	<i>Brooklyn, N. Y.</i>	Hope 9
Oliver Hilliard Booth	<i>Poughkeepsie, N. Y.</i>	Slater 6
Robert Lawton Bowen, A.B.	<i>Providence</i>	1488 Westminster St.
Henry James Brady	<i>Providence</i>	385 Pine St.
Asa Lloyd Briggs	<i>Ashaway</i>	Slater 12
Herbert Frank Brightman	<i>Fall River, Mass.</i>	Maxcy 322
Morris Brown	<i>Woonsocket</i>	14 Benefit St.
John Ervin Bullard	<i>Keene, N. H.</i>	University 52
Bertram Harrington Buxton	<i>Providence</i>	Brunonia 3
Arthur Ewen Cameron	<i>Providence</i>	Maxcy 205
Godfrey Igino Cardellicchio	<i>Providence</i>	138 Messer St.
Charles Dyer Casey	<i>Providence</i>	University 28
William Edson Cheever	<i>Providence</i>	Maxcy 210
Paul Franklin Clark	<i>Portland, Me.</i>	Hope 48
Warren Almon Clough	<i>Groton, Mass.</i>	Maxcy 324
Guy Blandin Colburn	<i>Nashua, N. H.</i>	University 18
Frederick Aloysius Coughlin	<i>Woonsocket</i>	University 28
Foster Barker Davis	<i>Providence</i>	Slater 17
Clarence Washington Dealtry	<i>East Bridgewater, Mass.</i>	Maxcy 210
Arthur Albertus Denico	<i>Narragansett Pier</i>	32 Hammond St.
Harold Williams Drury	<i>North Swansea, Mass.</i>	Maxcy 426

NAME	RESIDENCE	ROOM
Richard Owen Dummer	<i>Weld, Me.</i>	Brunonia 14
James Harper Duncan	<i>Haverhill, Mass.</i>	Hope 12
Howard Foss Esten	<i>Pawtucket</i>	Maxcy 202
Louis Edward Feingold	<i>Worcester, Mass.</i>	Maxcy 323
Charles Fowler Fields	<i>Hartford, Ct.</i>	Hope 30
George Blinn Francis, Jr.	<i>New York, N. Y.</i>	Hope 24
Herbert Augustine Freeman	<i>Willimantic, Ct.</i>	Maxcy 433
James Murray Gallison	<i>Franklin, Mass.</i>	Slater 17
Philip Trayne Gleason	<i>Lonsdale</i>	Hope 21
Harmon Henry Gnuse	<i>La Grange, Mo.</i>	29 Benevolent St.
Clifford Moore Granger	<i>Feeding Hills, Mass.</i>	8 Hopkins St.
William Henry Gray	<i>Malone, N. Y.</i>	University 44
Wells Albert Hall	<i>Brockton, Mass.</i>	Hope 26
Harold Robert Hanson	<i>East Providence Centre</i>	East Providence Centre
Wendell Edmund Harlow	<i>Middleboro, Mass.</i>	Hope 33
Howard Farnam Hart	<i>Fayetteville, N. Y.</i>	Maxcy 435
Charles Shailer Hascall	<i>East Northfield, Mass.</i>	Maxcy 205
Harry Worthington Hastings	<i>Agawam, Mass.</i>	Hope 23
John Francis Heckman	<i>North Attleboro, Mass.</i>	University 54
John Peabody Herring	<i>East Providence Centre</i>	Hope 32
Clifton Henry Hobson	<i>Palmer, Mass.</i>	Hope 22
William George Hoffman, Jr.	<i>Providence</i>	Hope 33
George Sanford Holmes	<i>Pawtucket</i>	72 College St.
Charles Wesley Hunt	<i>No. Charlestown, N. H.</i>	Hope 23
Alfred Elton Isaac	<i>Providence</i>	113 East Manning St.
Royal Nesmith Jessup	<i>Brooklyn, N. Y.</i>	Hope 48
Frederick Clark Jones	<i>Providence</i>	Slater 17
Harold Vincent Joslin	<i>New Brunswick, N. J.</i>	Brunonia 3
Noble Brandon Judah, Jr.	<i>Chicago, Ill.</i>	Brunonia 3
Llewellyn William Jutten	<i>Fall River, Mass.</i>	Slater 1
George Edward Kelleher	<i>Providence</i>	University 17
Herbert Alden Kenyon	<i>Providence</i>	Hope 47
Ralph Arthur Lane	<i>Providence</i>	58 College St.
Louis Russell Langworthy	<i>East Providence</i>	Hope 32
Charles Bainbridge Leland	<i>Clifton Springs, N. Y.</i>	University 45
Alpha Freeman Leonard	<i>Needham, Mass.</i>	Maxcy 432

NAME	RESIDENCE	ROOM
Samuel Everett Lincoln	<i>East Providence</i>	Hope 37
Michael Joseph Lynch	<i>Holyoke, Mass.</i>	4 Manning St.
James Alphonsus McCann	<i>Providence</i>	Maxcy 315
Eugene Ambrose McCarthy	<i>Fall River, Mass.</i>	Maxcy 315
Eugene La Verne McIntyre	<i>Waldo, Wis.</i>	Brunonia 2
James Joseph McKenna	<i>Providence</i>	University 28
Joseph William Mackenzie	<i>Fall River, Mass.</i>	University 22
Charles Frederick Marks	<i>La Grange, Mo.</i>	29 Benevolent St.
Robert Grant Martin	<i>Salem, Mass.</i>	Hope 40
Carlton Howard Maryott	<i>Millbrook, N. Y.</i>	Hope 7
Stephen Waterman Mason	<i>Providence</i>	4 Manning St.
Alfred Fellows Masury	<i>Danvers, Mass.</i>	4 Manning St.
Jacob Alexander Mattuck	<i>Worcester, Mass.</i>	Maxcy 436
Houghton Metcalf	<i>Providence</i>	Slater 7
Allen Webster Milliken	<i>New Bedford, Mass.</i>	University 57
Elisha Capron Mowry	<i>Providence</i>	University 12
Lester Hutchinson Nichols	<i>Bennington, Vt.</i>	Maxcy 321
Frederick William O'Connell	<i>Providence</i>	75 Langdon St.
John Hector Palmer	<i>Portland Me.</i>	Maxcy 434
Arthur Lionel Patch	<i>Stoneham, Mass.</i>	Hope 10
Harry Maynard Penley	<i>Auburn, Me.</i>	Slater 3
Arthur Upham Pope	<i>Newburyport, Mass.</i>	Hope 39
Walter Everett Prince	<i>Worcester, Mass.</i>	Maxcy 323
Bernard Perry Raymond	<i>Winchendon, Mass.</i>	Hope 22
Wilber Tibbetts Reynolds	<i>East Greenwich</i>	Hope 41
Charles Duren Roston	<i>Dorchester, Mass.</i>	209 Williams St.
Louis Earl Rowe	<i>Shawomet Beach</i>	Maxcy 435
Herbert Lee Sackett	<i>Smith's Mills, N. Y.</i>	Hope 1
Lucius Albert Salisbury	<i>Sandy Creek, N. Y.</i>	Maxcy 319
William Sandager	<i>Auburn</i>	Hope 27
Charles Frederic Savage	<i>Providence</i>	University 38
Berrick Schloss	<i>Pawtucket</i>	Hope 33
Eliot Rossiter Scudder	<i>Brockton, Mass.</i>	Slater 20
Harry Smalley	<i>Fall River, Mass.</i>	Maxcy 212
Edward Staples Smith	<i>Crozet, Va.</i>	Maxcy 428
George Lawton Spencer	<i>Providence</i>	Hope 35

NAME	RESIDENCE	ROOM
Albert Hayes Stanton	<i>Ekonk, Ct.</i>	Hope 27
Elmer Tompkins Stevens	<i>Chicago, Ill.</i>	Slater 14
Claude Henry Stockard	<i>Providence</i>	University 17
Edward Padelford Taft	<i>Providence</i>	Brunonia 11
Edwin Judkins Tetlow	<i>Providence</i>	Hope 33
Clarence McGregor Thompson	<i>Hartford, Ct.</i>	Hope 29
Roy Towne	<i>Windham, Ct.</i>	32 Custom House St.
Samuel Beedy Trumbull	<i>Lawrence, Mass.</i>	Maxcy 432
John Brown Watson	<i>Tahlequah, I. T.</i>	291 Thayer St.
Albert Benjamin West	<i>Providence</i>	57 Roanoke St.
Arthur Lincoln Young	<i>New Dorchester, Mass.</i>	Brunonia 14

JUNIORS—CLASS OF 1905

NAME	RESIDENCE	ROOM
Frank Taylor Albro	<i>Fall River, Mass.</i>	University 44
Charles Zaslavsky Alexander	<i>Providence</i>	129 Williams St.
George Deacon Allison	<i>Brooklyn, N. Y.</i>	Maxcy 431
Harrington Tillinghast Anthony	<i>Drownville</i>	Slater 5
Harold Greene Arnold	<i>Providence</i>	Slater 10
Joseph Chester Bailey	<i>Providence</i>	Slater 2
Samuel Newhall Baker	<i>Providence</i>	4 Manning St.
Walter Howard Barney	<i>Providence</i>	Hope 35
Samuel Teel Bartlett	<i>West Somerville, Mass.</i>	University 22
Edgar Augustine Beatty	<i>Lovettsville, Va.</i>	Hope 14
Leroy Franklin Bliss	<i>Fall River, Mass.</i>	Hope 32
Harris William Breeden	<i>Laconia, N. H.</i>	Hope 19
Frederick Calvin Broomhead	<i>Fall River, Mass.</i>	Maxcy 212
Allyn Larrabee Brown	<i>Norwich, Ct.</i>	Slater 14
Arthur Robert Brown	<i>Hornellsville, N. Y.</i>	87 Congdon St.
Bertram Clyde Bugbee	<i>Woodstock Valley, Ct.</i>	127 Benefit St.
Frank Arthur Burr	<i>East Providence</i>	East Providence
Raymond Davis Cady	<i>Providence</i>	Maxcy 321
William Henry Camfield	<i>Providence</i>	136 Oxford St.
Ralph William Chandler	<i>Perry, Iowa</i>	Maxcy 204
James Henry Connolly	<i>Pawtucket</i>	177 School St., Pawtucket
Frederick Webster Cook	<i>Providence</i>	University 21
Judson Adams Crane	<i>Malden, Mass.</i>	Maxcy 324
Leonard Wolsey Cronkhite	<i>Newton Centre, Mass.</i>	Hope 38
Earle Bennett Cross	<i>Providence</i>	Maxcy 206
Lewis Porter Damon	<i>Fall River, Mass.</i>	Hope 34
Herbert Franklin Davison	<i>Pawtucket</i>	41 Summer St., Pawtucket
Albert Arthur Deal	<i>Rhinebeck, N. Y.</i>	Maxcy 431
Charles Henry Douglass	<i>Providence</i>	135 Brook St.
Albert Averill Dowd	<i>Woodbury, Ct.</i>	University 33
DeWitt Carl Eggleston	<i>Sound Beach, Ct.</i>	Maxcy 314
Charles William Ehmke	<i>Silver Creek, N. Y.</i>	29 Benevolent St.

NAME	RESIDENCE	ROOM
Fred Haywood Freeman	<i>Sterling, Ct.</i>	22 Halsey St.
Richard Thomas Garland	<i>Pawtucket</i>	University 57
Jesse Madison Gathany	<i>Hallstead, Pa.</i>	Maxcy 313
George Adam Gessner	<i>Macomb, Ill.</i>	Brunonia 4
Samuel Carlisle Goodrich	<i>Newburgh, N. Y.</i>	Slater 15
Edwin Sykes Goodwin	<i>Laconia, N. H.</i>	Hope 12
Stephen Earl Gratrix	<i>Newport</i>	University 27
Chester Carr Greene	<i>Providence</i>	442 Pine St.
Martin Stuart Hall	<i>Alpine, N. Y.</i>	279 George St.
Harry Spear Harding	<i>Stoneham, Mass.</i>	Hope 17
Edward Everett Harkness	<i>Gardner, Mass.</i>	University 30
Theodore Conrad Hascall	<i>East Northfield, Mass.</i>	Maxcy 206
William Chace Hascall	<i>East Northfield, Mass.</i>	Maxcy 205
Harry French Hatch	<i>St. Albans, Vt.</i>	Hope 41
Frederick Eugene Hawkins	<i>Providence</i>	Hope 21
John Joseph Healey	<i>Providence</i>	Maxcy 316
Charles Alfred Hobbs	<i>Delavan, Wis.</i>	64 Keene St.
Benjamin Holland, Jr.	<i>Providence</i>	Hope 14
Clarence Warren Holmes	<i>Landaff, N. H.</i>	University 46
Ray Palmer Hovey	<i>Caloosa, Fla.</i>	Maxcy 321
Arthur Allison Howard	<i>Wakefield, Mass.</i>	58 College St.
Frank Gilbert Howard	<i>Arlington</i>	800 Cranston St.
Hinson Vernon Howlett	<i>Taunton, Mass.</i>	Maxcy 202
Colgate Hoyt, Jr.	<i>New York, N. Y.</i>	Slater 10
Charles Hadlai Hull	<i>New London, Ct.</i>	Hope 24
Frank Clifton Hulse	<i>Port Jefferson, N. Y.</i>	University 27
Stephen Foster Hunt	<i>Providence</i>	Slater 20
Newton Peck Hutchison	<i>Providence</i>	195 Thayer St.
Lucien Stevens Hyde	<i>Whitney's Point, N. Y.</i>	Hope 4
Alfred Wesley Ingalls	<i>Lynn, Mass.</i>	Maxcy 204
Robert Irving Jamieson	<i>Conimicut</i>	Hope 21
Oliver Saunders Jennings	<i>Fall River, Mass.</i>	University 43
Ralph Gerhardt Johnson	<i>Des Moines, Ia.</i>	Maxcy 317
Leon Munn Kendall	<i>Fairlee, Vt.</i>	Maxcy 427
Ralph Darling Kettner	<i>Providence</i>	University 10
Charles Harvey Kingman	<i>Jamestown, N. Y.</i>	Hope 8

NAME	RESIDENCE	ROOM
William John Lamkie	<i>Walpole, N. H.</i>	29 Benevolent St.
Arthur Joseph Latham	<i>Edgewood</i>	University 31
Ernest Farnum Lewis	<i>Providence</i>	University 34
John Henry McGough, Jr.	<i>Providence</i>	Hope 2
Edward Francis McKenna	<i>Providence</i>	1686 Westminster St.
George Rupert MacMinn	<i>Burlington, Ia.</i>	Maxcy 318
John Christopher Mahoney	<i>Providence</i>	28 Preston St.
Frank Elliot Marble	<i>Lynn, Mass.</i>	Brunonia 13
Robert Alvin Marble	<i>Worcester, Mass.</i>	University 19
Arthur Palmer May	<i>Somerset, Mass.</i>	68 Olney St.
William Granville Meader	<i>Providence</i>	Hope 21
Charles Stuart Mitchell	<i>West Long Branch, N. J.</i>	Hope 13
Philip Nanes	<i>New York, N. Y.</i>	348 North Main St.
Harold Charles Newton	<i>Athol, Mass.</i>	Maxcy 313
Ralph Granville Ostby	<i>Providence</i>	Slater 2
Charles Earle Otis	<i>Providence</i>	University 21
Sangkyu Pak	<i>Seoul, Korea</i>	279 George St.
John Simmons Palmer	<i>Providence</i>	Slater 12
Arthur Niles Potter	<i>Willimantic, Ct.</i>	University 51
Willard Leslie Pratt	<i>Everett, Mass.</i>	Hope 5
Irving Lanouette Price	<i>Worcester, Mass.</i>	Hope 37
Frank Norton Ray,	<i>East Providence</i>	622 Broadway, E. Providence
William Alfred Read	<i>South Hanson, Mass.</i>	Maxcy 210
Albert Charles Richards	<i>Providence</i>	29 Francis St.
Arthur Henry Robinson	<i>Esperance, N. Y.</i>	Hope 16
Charles Edwin Robinson	<i>New Market, N. H.</i>	223 Ives St.
Charles Lorimer Robinson	<i>Providence</i>	Maxcy 202
Meyer Harold Sackett	<i>Providence</i>	22 Wheaton St.
Fred Schwinn	<i>Newark, N. J.</i>	4 Manning St.
Charles Henry Seddon	<i>Providence</i>	Hope 3
Gilbert Elwood Slone	<i>Foxboro, Mass.</i>	39 Charles Field St.
Chester Wilson Smith	<i>Worcester, Mass.</i>	4 Manning St.
Francis Hervey Smith	<i>Hillsboro Bridge, N. H.</i>	Hope 28
William Arnold Spicer, Jr.	<i>Providence</i>	Slater 15
John Jay Staley	<i>Warren's, Wis.</i>	Hope 2
Howland Sherman Stedman	<i>Newport</i>	University 34

NAME	RESIDENCE	ROOM
Smith Oliver Steere	<i>Mapleville</i>	38 Durfee St.
Frank William Stephens	<i>Hornellsville, N. Y.</i>	87 Congdon St.
Augustus Noble Stonegrave	<i>St. Albans, Vt.</i>	Hope 6
Herbert Jackman Stowell	<i>Berlin, N. H.</i>	Maxcy 211
Harvey Julian Swann	<i>Salem, Mass.</i>	Hope 32
John Harrison Thompson	<i>Hartford, Ct.</i>	Hope 29
Arthur Swain Townsend	<i>East Providence</i>	Maxcy 432
Earl Vanderbilt	<i>Little York, N. J.</i>	194 Broad St.
Rodney Charles Walker	<i>Ludlow, Vt.</i>	University 33
Gene Wilder Ware	<i>Shelburne Falls, Mass.</i>	University 48
Chester Campbell Waters	<i>Providence</i>	Hope 37
Archie Roy Webb	<i>Whitehall, Wis.</i>	Hope 2
Thomas McAlpine Webb	<i>Pettaconsett</i>	Pettaconsett
Charles Albert Weeks	<i>Providence</i>	Hope 23
Paul Weiss	<i>Dolgeville, N. Y.</i>	32 Custom House St.
Thomas Albert Welch	<i>Lynn, Mass.</i>	Brunonia 13
Elmer Orlando Weld	<i>Mansfield, Mass.</i>	Brunonia 14
Herbert Comstock Wells	<i>Kingston</i>	Slater 6
Lester Allen Wells	<i>Providence</i>	209 Montgomery Ave.
Niles Westcott	<i>Oak Lawn</i>	Oak Lawn
Carlton Grieves White	<i>Somerville, Mass.</i>	Hope 26
Eugene Merrill Wilson	<i>Mt. Vernon, N. Y.</i>	Hope 15
Basil Boise Wood	<i>Newton Centre, Mass.</i>	Hope 30
Glenn William Woodin	<i>Blodgett's Mills, N. Y.</i>	Hope 1
Ralph Benjamin Woodsum	<i>Exeter, N. H.</i>	University 47

SOPHOMORES—CLASS OF 1906

NAME	RESIDENCE	ROOM
William Horton Albrecht	<i>North Scituate</i>	87 Congdon St.
Walter Herbert Angell	<i>Pawtuxet</i>	33 Sea View Ave., Pawtuxet
George Sanford Atwood	<i>Newburgh, N. Y.</i>	Hope 4
Myron Leslie Bailey	<i>East Weymouth, Mass.</i>	University 53
Harris Merrill Barbour	<i>Wollaston, Mass.</i>	Hope 38
Albert Francis Bassford	<i>Norristown, Pa.</i>	117 Bridgham St.
Frederick Reynolds Belding	<i>Malone, N. Y.</i>	University 40
Sidney Raymond Bellows	<i>Shawomet Beach</i>	Slater 14
Charles Barrows Bennett	<i>Providence</i>	243 Pleasant St.
Reinhart William Berthold	<i>Webster, Mass.</i>	64 College St.
Richard Birnie, Jr.	<i>Charleston, S. C.</i>	Hope 45
Gustaf Frederic Theodore Bjerkander	<i>Providence</i>	282 Point St.
Howard Wheaton Brayton	<i>Providence</i>	University 19
Walter Albert Briggs	<i>Attleboro, Mass.</i>	108 Evergreen St.
Edgar Sheffield Brightman	<i>Provincetown, Mass.</i>	Hope 3
Aylsworth Brown	<i>Providence</i>	Slater 11
Ray Brown	<i>Wollaston, Mass.</i>	University 21
Leslie Goddard Buck	<i>Cavendish, Vt.</i>	3 De Foe Place
Raymond Gilbert Bugbee	<i>North Attleboro, Mass.</i>	87 Congdon St.
George Burroughs Bullock	<i>Providence</i>	Slater 10
Alexander Manlius Burgess	<i>Portland, Me.</i>	Slater 7
William Wilder Burton	<i>Pawtucket</i>	Hope 2
James Lester Busby	<i>Warren, Mass.</i>	University 32
Hayward Murray Butler	<i>Providence</i>	312 Public St.
Henry Godfrey Carpenter	<i>East Providence</i>	Maxcy 432
Walter Clayton Carpenter	<i>Pawtucket</i>	287 Pawtucket Ave., Pawtucket
Horace Edward Chandler	<i>Scranton, Pa.</i>	Maxcy 434
Charles Raymond Chappell	<i>New London, Ct.</i>	Maxcy 320
Peter Pineo Chase	<i>Hyannis, Mass.</i>	Slater 7
Albert Whitman Claflin	<i>Providence</i>	Hope 35
John Maurice Clifford	<i>Providence</i>	31 Grape St.
Joseph Colter	<i>Suffield, Ct.</i>	Hope 22

NAME	RESIDENCE	ROOM
Howard Wilbur Congdon	<i>Providence</i>	272 Dudley St.
Jason Osborne Cook	<i>Rumney Depot, N. H.</i>	Hope 28
Frank Starr Cooke	<i>Providence</i>	Hope 36
Gerald Arthur Cooper	<i>Providence</i>	90 Congdon St.
George Bartlett Corcoran	<i>West Springfield, Mass.</i>	Maxcy 316
Herbert Ellsworth Cory	<i>Providence</i>	51 Arch St.
William Aloysius Cox	<i>Pawtucket</i>	176 Sterry St., Pawtucket
Elisha Allan Crowell	<i>Woods Hole, Mass.</i>	Hope 2
Hollis Brown Cubberly	<i>South Plainfield, N. J.</i>	Hope 44
William Mortimer Cullen	<i>Thomaston, Me.</i>	28 Planet St.
Frederick Simms Cushing	<i>Taunton, Mass.</i>	University 27
Paul Churchill DeWolf	<i>Newark, N. J.</i>	4 Manning St.
Louis Irving Dexter	<i>Valley Falls</i>	Maxcy 210
William Clark Drohan	<i>Brockton, Mass.</i>	Maxcy 315
William Young Easterbrooks	<i>Pawtucket</i>	Hope 34
Lester Leopold Falk	<i>Chicago, Ill.</i>	University 50
John Morton Ferrier	<i>Providence</i>	285 Union Ave.
Robert Franklin Field	<i>Providence</i>	25 Wilson St.
Ross Whittaker Fishburn	<i>Richmond Hill, N. Y.</i>	Hope 13
John Ellsworth Flemming	<i>Chester, Pa.</i>	Hope 15
Alfred Wayland Fletcher	<i>Providence</i>	Hope 13
James Roy Foulder	<i>Salt Point, N. Y.</i>	Slater 9
Arthur Garfield Fowler	<i>Woonsocket</i>	Maxcy 207
George Reuben Williamson	<i>French Taunton, Mass.</i>	107 George St.
Lucian Deane Fuller	<i>Plaistow, N. H.</i>	University 47
Daniel Edward Geary	<i>Providence</i>	162 Orms St.
Phillips Standish Gilman	<i>Worcester, Mass.</i>	Maxcy 207
Cardinal Leonidas Goodwin	<i>Bacone, Indian Territory</i>	87 Congdon St.
Theodore William Gordon	<i>East Providence</i>	Hope 28
Alexander Graham	<i>Somerville, Mass.</i>	Brunonia 1
Frank Ingraham Greene	<i>Newport</i>	University 34
James Hamilton, Jr.	<i>Howard</i>	Howard
Philip Adams Hanson	<i>Portland, Me.</i>	Hope 37
Robert Earle Hawkins	<i>Attleboro, Mass.</i>	Attleboro
William Read Hersey	<i>Providence</i>	Hope 47
William Raymond Hickman	<i>Greencastle, Ind.</i>	Hope 39

NAME	RESIDENCE	ROOM
Prescott Tillinghast Hill	<i>Providence</i>	Hope 36
James Henry Hinchey	<i>Pottersville, Mass.</i>	Pottersville, Mass.
Harry Hiram Hinds	<i>St. Albans, Vt.</i>	Hope 7
George Augustine Hines	<i>Oak Lawn</i>	Oak Lawn
Henry Ramsden Hobson	<i>Providence</i>	Hope 22
Edgar Arnold Hopkins, Jr.	<i>Providence</i>	Brunonia 3
Charles Spencer Huff	<i>Little York, N. J.</i>	Maxcy 426
Homer Elijah Hunt	<i>Fairfax, Vt.</i>	Hope 25
Harold Wells James	<i>Providence</i>	Hope 1
John Williams James	<i>Detroit, Mich.</i>	64 Keene St.
Charles Henry Jones, Jr.	<i>Wareham, Mass.</i>	Hope 3
John Harrison Joyce	<i>Brockton, Mass.</i>	University 57
Edwin Ahira Kelley	<i>Fairhaven, Mass.</i>	Maxcy 208
Harvey McLeod Kelley	<i>Bradford, Mass.</i>	39 Parkis Ave.
William Arthur Kennedy	<i>Providence</i>	31 Forest St.
Edward Douglass Kilburn	<i>Malone, N. Y.</i>	University 12
Arthur Caswell King	<i>Taunton, Mass.</i>	107 George St.
George Franklin Krause	<i>Lebanon, Pa.</i>	University 57
Ralph Ernest Larry	<i>Providence</i>	Hope 15
Robert Lee Latimer	<i>Montville, Ct.</i>	Maxcy 211
Frederic Kent Lawrence	<i>Fairhaven, Mass.</i>	Maxcy 202
William Russell Lightbody	<i>Manchester, N. H.</i>	Slater 5
William Le Roy Lillie	<i>Lebanon, Ct.</i>	Maxcy 433
Leverett James Luce	<i>Suffield, Ct.</i>	8 Hopkins St.
Frank David McIntyre	<i>Waldo, Wis.</i>	Brunonia 2
Allen Wilbur Manchester	<i>Bristol, Ct.</i>	3 De Foe Place
Frank Nesler Mandeville	<i>Newark, N. J.</i>	4 Manning St.
Philip Marcus	<i>Providence</i>	235 Orms St.
Thomas Randolph Marshall	<i>Seaville, N. J.</i>	Brunonia 4
Paul Matteson	<i>Providence</i>	University 50
Arthur Carroll Maxfield	<i>Pittsfield, N. H.</i>	80 Chestnut St.
John Perkins Mead	<i>East Jaffrey, N. H.</i>	Hope 42
Charles Douglas Mercer	<i>Providence</i>	Slater 6
Jacob Cooper Millard	<i>Providence</i>	120 Congdon St.
Ernest Ephraim Moore	<i>Plymouth, Vt.</i>	3 De Foe Place
Wesley Floyd Morse	<i>Keene, N. H.</i>	University 58

NAME	RESIDENCE	ROOM
Preston Sumner Moulton	<i>Providence</i>	Slater 2
Lanning Myers	<i>Alloway, N. J.</i>	29 Benevolent St.
Elmer Douglas Nickerson	<i>Providence</i>	Hope 25
Carl Nathaniel Nutter	<i>Pittsfield, N. H.</i>	87 Congdon St.
John Howard O'Keefe	<i>Taunton, Mass.</i>	Maxcy 315
Evan Bucklin Owen	<i>Providence</i>	Slater 6
Edward Joseph Owens	<i>Valley Falls</i>	Hope 7
Eliot Greer Parkhurst	<i>Providence,</i>	Slater 15
Harry Ernest Pattee	<i>Bristol, N. H.</i>	Maxcy 203
William Thomas Pearson	<i>Fall River, Mass.</i>	Slater 5
Arthur Truman Steere Phetteplace	<i>Providence</i>	University 18
Robert John Pierce	<i>Fitch, N. Y.</i>	Maxcy 208
Emery Moulton Porter	<i>Providence</i>	Slater 14
Rhys Powell	<i>Scranton, Pa.</i>	Brunonia 15
Thomas Wendell Prestwich	<i>Providence</i>	125 Doyle Ave.
Leonard Augustus Prouty	<i>Auburn, Mass.</i>	Hope 46
Oscar William Rackle	<i>Canton, O.</i>	246 Ives St.
Howard Leander Rice	<i>Providence</i>	236 Dudley St.
Clement Richardson	<i>Winchester, Mass.</i>	115 Williams St.
Louis Rosen	<i>Providence</i>	229 Willard Ave.
Gustavus Adolphus Russ	<i>Norwich, Ct.</i>	Slater 17
Nathan Sackett	<i>Providence</i>	22 Wheaton St.
Joseph Schmidt	<i>Providence</i>	243 Chalkstone Ave.
Charles Sawyer Shinn	<i>Lakehurst, N. J.</i>	Maxcy 208
George Gershon Shor	<i>Worcester, Mass.</i>	20 Wheaton St.
William Gould Slocum	<i>Newport</i>	Hope 20
Harris Deming Stone	<i>Auburn</i>	649 Park Ave., Auburn
Walter Douglas Swaffield	<i>Jersey City, N. J.</i>	Hope 17
Axel Fabian Swanson	<i>Chicago, Ill.</i>	Maxcy 426
Matthew Mark Sweeney	<i>Woonsocket</i>	Woonsocket
Everett Harold Swett	<i>Providence</i>	University 18
Leeson Oren Tarleton	<i>Concord, N. H.</i>	Maxcy 319
Charles Carpenter Tillinghast	<i>Oak Lawn</i>	Maxcy 208
Howard Melville Tracy	<i>Cortland, N. Y.</i>	Maxcy 427
Richard Dana Tucker	<i>Newburyport, Mass.</i>	Maxcy 320
Lloyd Peter Upton	<i>Manchester, N. H.</i>	University 12

NAME	RESIDENCE	ROOM
Edwin Raymond Walsh	<i>Providence</i>	293 Prairie Ave.
John Gormley Walsh	<i>Providence</i>	28 Bainbridge Ave.
Arthur William Wathen	<i>Rehoboth, Mass.</i>	Rehoboth
Edward Wilford Weikert	<i>Hauppauge, N. Y.</i>	Maxcy 318
Robert Pierce Wetherell	<i>Attleboro, Mass.</i>	108 Evergreen St.
Joseph Lewis Wheeler	<i>Providence</i>	72 Comstock Ave.
Ralph Cahoon Whitenack	<i>Wilmington, Del.</i>	Hope 47
Albert Everett Whittaker	<i>Central Falls</i>	Hope 41
Byron Whittemore	<i>Pittsfield, N. H.</i>	38 Benevolent St.
William Grant Winsor, Jr.	<i>Brockton, Mass.</i>	University 60
Walter Edgar Woodbury	<i>Nashua, N. H.</i>	University 18
Stephen Edward Wright	<i>Auburn</i>	Auburn

FRESHMEN—CLASS OF 1907

NAME	RESIDENCE	ROOM
Myron Hopkins Strong Affleck	<i>Yonkers, N. Y.</i>	63 Angell St.
Douglas Nisbet Allan	<i>Providence</i>	Maxcy 205
Stephen Brownell Ames	<i>Providence</i>	Brunonia 6
Francis Maurice Anderson	<i>Albany, N. Y.</i>	University 13
Richard Sisson Austin	<i>Providence</i>	113 George St.
Fred Sawyer Auty	<i>Providence</i>	Maxcy 203
Edward Sumner Bailey	<i>Reading, Mass.</i>	Maxcy 430
George Edward Bailey	<i>Winchendon, Mass.</i>	Hope 42
Benjamin Charles Baker	<i>Providence</i>	Slater 10
Ralph Edward Bancroft	<i>Stoneham, Mass.</i>	58 College St.
John Thomas Bannan	<i>Providence</i>	311 Prairie Ave.
William Joseph Bannon	<i>Westerly</i>	University 52
Albert Edmund Barnes	<i>Ashton</i>	Hope 7
John Temple Barnicoat, Jr.	<i>Providence</i>	577 Prairie Ave.
Frederick Steere Beattie	<i>Central Falls</i>	43 Illinois St., Central Falls
William Arthur Bolster	<i>Valley Falls</i>	Valley Falls
Halbert Ambrose Bolt	<i>Cannonsville, N. Y.</i>	University 46
Walter Lewis Boyson	<i>Cambridge, Mass.</i>	Maxcy 429
Jacob Brack	<i>Boston, Mass.</i>	64 College St.
Arthur Chester Brackett	<i>River Point</i>	River Point
Claude Raymond Branch	<i>Providence</i>	68 Keene St.
John Henry Breslin	<i>Revere, Mass.</i>	University 28
Hall Anderson Brewer	<i>Hall, Ind.</i>	8 De Foe Place
Asa Sheldon Briggs	<i>Ashaway</i>	University 19
William Edward Bright	<i>Scranton, Pa.</i>	University 55
Roswell Franklin Brooks, Jr.	<i>Harrisville</i>	Maxcy 430
Harold Learned Brown	<i>Sioux City, Ia.</i>	Hope 40
Arthur Garfield Bruce	<i>Gardner, Mass.</i>	University 59
George Ambrose Buckley	<i>Brockton, Mass.</i>	Maxcy 314
Elmer Jay Bunting	<i>Keene, N. H.</i>	University 59
George Earle Burnham	<i>Central Falls</i>	Hope 26
William Phineas Burnham	<i>Wells, N. Y.</i>	64 College St.

NAME	RESIDENCE	ROOM
Arthur William Bushell	<i>Crescent Beach, Ct.</i>	144 Doyle Ave.
Francis Mercer Campbell	<i>Providence</i>	Maxcy 425
George Campbell	<i>Westminster, West, Vt.</i>	Hope 11
Eugene Clayton Carder	<i>Cambridge, Mass.</i>	Maxcy 425
Frank Cornelius Carroll	<i>Providence</i>	131 Tockwotton St.
Zechariah Chafee, Jr.	<i>Providence</i>	University 13
Harry Hobart Chandler	<i>Newburyport, Mass.</i>	University 30
George Wilder Cheney	<i>Nashua, N. H.</i>	Maxcy 317
Charles Richmond Church	<i>Providence</i>	12 Slocum St.
Henry Garfield Clark	<i>Shannock</i>	Slater 20
Alfred Preston Cobb	<i>Bridgeton, Me.</i>	Slater 7
Harry Wright Collins	<i>Pawtucket</i>	889 North Main St., Pawtucket
Walter Nichols Collins	<i>East Greenwich</i>	Brunonia B
Samuel Edward Compton	<i>Washington, D. C.</i>	87 Cushing St.
Henry Conyers	<i>Arlington</i>	904 Cranston St.
Henry William Corp	<i>Providence</i>	308 Orms St.
Phanuel Bishop Covell	<i>Warren</i>	Hope 16
Henry Kempton Craft	<i>Charleston, S. C.</i>	Hope 45
Carl Stone Crummett	<i>Haverhill, Mass.</i>	350 Thayer St.
Frank Anthony Cummings	<i>Providence</i>	592 Potter Ave.
Robert Curley	<i>Upton, Mass.</i>	38 Benevolent St.
John Leo Curran	<i>Providence</i>	10 Burnside St.
Myron Shirley Curtis	<i>Pawtucket</i>	85 Middle St., Pawtucket
David Davidson	<i>Providence</i>	20 Arch St.
George Walker Davis	<i>Providence</i>	99 Taber Ave.
Milton Allen Davis	<i>Pottersville, Mass.</i>	8 Hopkins St.
Ralph Norton Dennett	<i>North Adams, Mass.</i>	Hope 31
William Obed Devoll, Jr.	<i>New Bedford, Mass.</i>	Slater 1
Alfred William Dickinson	<i>Somerville, Mass.</i>	University 25
Maurice Louis Dolt	<i>Dollon, Sarthe, France</i>	30 Congdon St.
Herbert Larned Dorrance	<i>Providence</i>	98 Waterman St.
Arthur Francis Driseoll	<i>North Brookfield, Mass.</i>	Maxcy 316
William Matthew Dugan	<i>Brinckerhoff, N. Y.</i>	Hope 44
Gardner Coggeshall Easton	<i>Newport</i>	72 College St.
Lloyd Champlin Eddy	<i>Providence</i>	Slater 11
Franklin Eugene Edgecomb	<i>Groton, Ct.</i>	Hope 16

NAME	RESIDENCE	ROOM
Ralph Leroy Elrod	<i>St. Albans, Vt.</i>	Maxcy 201
John Silva Enos	<i>Providence</i>	80 Carrington Ave.
James Grover Fegan	<i>Providence</i>	21 Pitman St.
Arthur Leonard Flagg	<i>Woonsocket</i>	Hope 18
Albert Morrill Fletcher	<i>Cambridge, Mass.</i>	Hope 2
Francis Ford	<i>Providence</i>	106 Bates St.
Charles Fowler, Jr.	<i>Galveston, Texas.</i>	Slater 11
Arthur Willis French	<i>Fall River, Mass.</i>	8 Hopkins St.
Horace Clemmer Funk	<i>Clayton, Pa.</i>	58 College St.
Dana Taylor Gallup	<i>Old Mystic, Ct.</i>	University 16
Leon Stearns Gay	<i>Cavendish, Vt.</i>	Hope 21
Edwin Ruthven Gordon	<i>East Providence</i>	Hope 28
Christopher Hamill Graham	<i>Springfield, Mass.</i>	66 Meeting St.
Joseph Isaac Grover	<i>Providence</i>	86 Glenham St.
Alfred Henry Gurney	<i>New London, Ct.</i>	Hope 39
Ralph Vincent Hadley	<i>Manchester, N. H.</i>	155 Benefit St.
Ernest Russell Hager	<i>Auburn</i>	700 Park Ave., Auburn
Arthur Valette Haight	<i>Poughkeepsie, N. Y.</i>	Slater 15
Henry Emmanuel Hallborg	<i>Newport</i>	72 College St.
James Hamilton	<i>Cambridge, Mass.</i>	Maxcy 429
Earle Arnold Harrington	<i>Providence</i>	426 Brook St.
Herbert Elisha Harris	<i>Olneyville</i>	Hope 4
Forrest Shepard Harvey	<i>St. Albans, Vt.</i>	448 Hope St.
Walter Emerson Hatch	<i>St. Albans, Vt.</i>	Hope 41
Herbert Emerson Healy	<i>New Bedford, Mass.</i>	9 Thomas St.
Oliver James Barton Henderson	<i>Bristol</i>	64 Bay View Ave., Bristol
Charles Hibbard	<i>Providence</i>	304 Potter Ave.
William Madison Higgins	<i>Groveton, N.H.</i>	17 Keene St.
Frank Howard Hinckley, Jr.	<i>Barnstable, Mass.</i>	64 College St.
Henry Hines	<i>Oak Lawn</i>	Oak Lawn
Levi Samuel Hoffman	<i>East Greenville, Pa.</i>	58 College St.
Frederic Nightingale Howard	<i>Providence</i>	112 Union St.
Robert Alexander Hueston	<i>Providence</i>	Hope 4
William Francis Huntley	<i>Providence</i>	Maxcy 425
George Hurley	<i>Providence</i>	Hope 17
Henry Greene Jackson	<i>Providence</i>	Slater 12

NAME	RESIDENCE	ROOM
Edmund Talma Jillson, Jr.	<i>Providence</i>	Hope 34
Preston Day Jones	<i>Providence</i>	26 Congdon St.
Robert Bradford Jones	<i>Providence</i>	Slater 18
Lloyd Wadleigh Josselyn	<i>Bridgewater, Mass.</i>	72 Comstock Ave.
Herbert Beers Keen	<i>Camden, N. J.</i>	Slater 19
John Courtland Knowles	<i>Providence</i>	Slater 14
Vernon Kriebble Kriebble	<i>Lansdale, Pa.</i>	58 College St.
Frederick Walls Lane	<i>Providence</i>	26 Irving Ave.
Arch Cushing Lewis	<i>Ulysses, Pa.</i>	Hope 19
Benjamin Franklin Grosh	<i>Lindemuth, Harrisburg, Pa.</i>	265 Benefit St.
Leonard Simmons Little	<i>Providence</i>	Slater 1
Albert John Loepsinger	<i>Providence</i>	39 Atlantic Ave.
Robert Toombs Lowrey	<i>Providence</i>	127 Oxford St.
Charles Adolph Lundell	<i>Providence</i>	University 38
Charles David McCann	<i>Brockton, Mass.</i>	University 28
Charles Dillon McEvoy	<i>Providence</i>	120 Woodward Road
Norman Fox MacGregor	<i>New York, N. Y.</i>	Hope 43
Ralph Wilbur McPhee	<i>Newton, Mass.</i>	63 Angell St.
Oscar Maddaus	<i>Brooklyn, N. Y.</i>	63 Angell St.
Francis Maines	<i>Paterson, N. J.</i>	University 60
Joseph James Malcolm	<i>Pawtucket</i>	30 Potter St., Pawtucket
Joshua Wilbur Mason	<i>Trenton, N. J.</i>	Hope 47
George Felix Mattuck	<i>Worcester, Mass.</i>	Maxey 436
Royal McKnight Merritt	<i>Clifton Springs, N. Y.</i>	Hope 46
Harold Edmund Miller	<i>St. Albans, Vt.</i>	29 Benevolent St.
Richard Hagan Miller	<i>Providence</i>	61 Charles Field St.
David Hirst Mills	<i>Ashton</i>	Hope 6
Ephraim Butler Moulton	<i>Arlington</i>	Arlington
Leslie Fowler Mowry	<i>Providence</i>	21 Dover St.
Robert Lewis Munson	<i>South Dartmouth, Mass.</i>	3 De Foe Place
Walter John Murray	<i>Ansonia, Ct.</i>	University 10
Ira Leston Nickerson	<i>Manton</i>	Manton
Frederick William O'Connor	<i>Pawtucket</i>	27 Lawn Ave., Pawtucket
Benjamin Goddard Oman	<i>Newport</i>	72 College St.
Frederic Ernest O'Neil	<i>Malone, N. Y.</i>	University 40
William Fowler Otis	<i>Providence</i>	233 Bowen St.

NAME	RESIDENCE	ROOM
Everett Mitchell Paddock	<i>Providence</i>	63 Governor St.
Harold William Paine	<i>Warwick</i>	University 60
Edward Carter Palmer	<i>Providence</i>	12 Barnes St.
William Partridge, Jr.	<i>Central Falls</i>	Hope 22
Leon Frank Payne	<i>Shelburne Falls, Mass.</i>	University 48
Henry Thornton Peace	<i>Saylesville</i>	Saylesville
Harry Edgar Pearsall	<i>Oxford, N. Y.</i>	Brunonia 15
Edwin James Potter	<i>Bridgeton</i>	University 60
Clinton Alfred Pray	<i>Brooklyn. Ct.</i>	Hope 27
Florence John Harrington Price	<i>Providence</i>	63 Angell St.
Frederick Lyman Provan	<i>Beverly, Mass.</i>	121 Angell St.
Ernest Shaw Reynolds	<i>Providence</i>	60 Evergreen St.
William Whyte Reynolds	<i>North Adams, Mass.</i>	Hope 31
Carl Eugene Richardson	<i>Marlboro, N. H.</i>	17 Keene St.
William Hawley Roberts	<i>Attleboro, Mass.</i>	Hope 20
Dwight Wood Robinson	<i>Auburn, Me.</i>	Slater 3
Edwin Vose Ross	<i>Portland, Me.</i>	38 Benevolent St.
William Nisbet Ross	<i>Providence</i>	14 Rhode Island Ave.
Hugh L Russell	<i>Ironton, O.</i>	Hope 19
Bowen Pullman Ryder	<i>Pawtucket</i>	Hope 10
Norman Lewis Sammis	<i>Huntington, N. Y.</i>	Slater 8
Richard Arthur Sanders	<i>Providence</i>	University 10
Victor Arthur Schwartz	<i>Newark, N. J.</i>	4 Manning St.
Ulysses Sylvester Grant Scull	<i>Vineland, N. J.</i>	81 Lloyd Ave.
Arthur Gray Seabury	<i>Little Compton</i>	127 Broadway
Philip Haas Shaffner	<i>Chicago, Ill.</i>	4 Manning St.
Herbert Benjamin Shearer	<i>Dublin, Pa.</i>	58 College St.
Benjamin Graves Sinclair	<i>Johnson, Vt.</i>	University 16
Walter Clifton Slade	<i>Providence</i>	University 10
Clesen Havill Smith	<i>Lancaster, N. H.</i>	University 31
David Wilkinson Smith	<i>Manville</i>	Maxcy 317
Newton Albert Smith	<i>Ware, Mass.</i>	63 Angell St.
Roy Raymond Smith	<i>Bristol, N. H.</i>	Maxcy 201
Arthur Chester Snow	<i>Providence</i>	Slater 5
Frank Gideon Spencer, Jr.	<i>Providence</i>	Hope 34
William Almor Spinney, Jr.	<i>Newark, N. J.</i>	72 College St.

NAME	RESIDENCE	ROOM
Charles Rathbone Stark, Jr.	<i>Providence</i>	Maxcy 206
Samuel Adams Steere	<i>Providence</i>	38 Durfee St.
Henry Jennison Blakely Stitt	<i>Saxton's River, Vt.</i>	Hope 11
Merrick Lyon Streeter	<i>Arlington Heights, Mass.</i>	33 Angell St.
Homer Newton Sweet	<i>Providence</i>	Hope 3
René Paul Thalmann	<i>Providence</i>	78 Benevolent St.
Griffith Edwards Thomas	<i>Scranton, Pa.</i>	University 55
George Emory Thurber	<i>Providence</i>	931 Manton Ave.
Harry Hadley Thurlow	<i>Buffalo, N. Y.</i>	66 Meeting St.
Raymond Frank Tift	<i>Somerville, Mass.</i>	University 25
Arthur Brintwall Tingley	<i>Providence</i>	Hope 36
Ralph Hopkins Tingley	<i>Providence</i>	43 Camp St.
Theodore Elliott Tolson	<i>Kent Island, Md.</i>	Hope 43
Elbridge Wiseman Truell	<i>East Lempster, N. H.</i>	58 College St.
Leon Edgar Truesdell	<i>Townshend, Vt.</i>	29 Benevolent St.
Raymond Goodwin Von Tobel	<i>Waterbury, Ct.</i>	49 Lloyd Ave.
Harold Allen Walker	<i>Taunton, Mass.</i>	Walker, Mass.
Ernest Milton Watson	<i>Cranston</i>	Maxcy 206
Clarence Wilton Way	<i>Dennisville, N. J.</i>	Slater 19
Albert Easton White	<i>Providence</i>	Hope 1
Edward Moseley White	<i>Springfield, Mass.</i>	8 Hopkins St.
William Kenneth White	<i>Mansfield, Mass.</i>	University 27
James Wilmot	<i>Providence</i>	16 Elgin St.
Herman Frederic Zimowski	<i>New Haven, Ct.</i>	University 54

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Henry Frederick Ahrens	<i>Brooklyn, N. Y.</i>	Hope 35
William Fosdick Aldrich, Jr.	<i>Providence</i>	17 Charles Field St.
Frederick Huntington Babcock	<i>Providence</i>	126 Waterman St.
Claude Cuthbert Ball	<i>Providence</i>	178 Hamilton St.
Leo Matthew Bannon	<i>Central Falls</i>	32 Bagley St., Central Falls
Edward Armistead Batchelor	<i>New Rochelle, N. Y.</i>	106 Benefit St.
Harry Davenport Bellin	<i>Central Falls</i>	45 Fales St., Central Falls
George Briggs, Jr.	<i>Providence</i>	Slater 2
Archibald Douglas Brown	<i>Providence</i>	101 Wesleyan Ave.
William Greene Budlong	<i>Providence</i>	39 Ring St.
Henry Dewees Cady	<i>Warren</i>	Warren
Adin Mowry Capron	<i>Stillwater</i>	Slater 17
George Collins Chase	<i>New London, N. H.</i>	Maxcy 203
Frank Hammett Childs	<i>New Bedford, Mass.</i>	Slater 3
Homer Metcalf Clark	<i>North Attleboro, Mass.</i>	Slater 11
John Howard Collier	<i>Providence</i>	4 Manning St.
Benjamin Fletcher Collins	<i>Pawtucket</i>	889 North Main St., Pawtucket
Fred Philbrick Curtice	<i>East Washington, N. H.</i>	170 Lockwood St.
Clinton Viall Dean	<i>Providence</i>	68 Orchard Ave.
Eugene Bromley De Merritt	<i>Exeter, N. H.</i>	University 46
Roscoe Conkling Dorn	<i>Sloansville, N. Y.</i>	121 Angell St.
George Bradford Draper	<i>Pawtucket</i>	217 Central Ave., Pawtucket
Hume Elting Flagler	<i>Poughkeepsie, N. Y.</i>	University 49
Benjamin Parker Graves	<i>Providence</i>	299 Admiral St.
Robert Grieve	<i>Providence</i>	109 Princeton Ave.
Willard Brayton Hall	<i>Geneva</i>	330 Smithfield Road
Samuel Armstrong Halsey	<i>Newark, N. J.</i>	4 Manning St.
Warren Bertram Harris	<i>Millbury, Mass.</i>	64 College St.
Joseph Leo Harson	<i>Providence</i>	University 17
Gustav Naphthali Hausmann	<i>Providence</i>	16 Glenham St.
Howard Raymond Heydon	<i>Crompton</i>	4 Manning St.
Vincent Charles Hoye	<i>Taunton, Mass.</i>	University 28

NAME	RESIDENCE	ROOM
Thomas Raymond Kilkenny	<i>Providence</i>	1356 Broad St.
Henry Willis Littlefield	<i>Providence</i>	102 Bowen St.
Willard Daniel MacKenzie	<i>Auburn</i>	309 Station St., Auburn
George Orlando Marshall	<i>Marysville, N. B.</i>	63 Angell St.
Butler Anderson Mathews	<i>Brooklyn, N. Y.</i>	Hope 36
Robert Wheaton Mawney	<i>Providence</i>	380 Smith St.
Edwin Guy Morse	<i>Holliston, Mass.</i>	63 Angell St.
Robert Fairfax Munro	<i>Bristol</i>	Bristol
Maurice Louis Murphy	<i>Providence</i>	143 Pavilion Ave.
James Murray	<i>Providence</i>	64 Sabin St.
Edwin Roberts Peck	<i>Albany, N. Y.</i>	Brunonia 6
Frank Wetherell Pierce	<i>Providence</i>	29 Hudson St.
Emory Lyon Place	<i>Providence</i>	803 Cranston St.
Carroll Winthrop Porter	<i>Providence</i>	246 Adelaide Ave.
Joseph John Queenan	<i>Providence</i>	85 Jenkins St.
Wayne Lawrence Randall	<i>Providence</i>	58 College St.
Percy Shires	<i>Scranton, Pa.</i>	Slater 1
Max Silverman	<i>Providence</i>	21 Wheaton St.
Clifford Perry Spencer	<i>Pawtucket</i>	122 Fountain St., Pawtucket
John Edward Tobin	<i>East Providence</i>	21 Warren Av., E. Providence
Walter Arthur Watts	<i>Pawtucket</i>	University 26
LeRoy Francis Whipple	<i>Pawtucket</i>	University 55
Lucius Albert Whipple	<i>Greenville</i>	Greenville
Lee Heyer White	<i>New London, Ct.</i>	University 60
Nelson White	<i>Pawtucket</i>	20 Rufus St., Pawtucket
Everett Albert Wilkinson	<i>Saylesville</i>	Saylesville
Ernest Henry Winslow	<i>Walpole, Mass.</i>	Slater 20
Louis Raymond Wise	<i>North Attleboro, Mass.</i>	Slater 2

THE WOMEN'S COLLEGE

SENIORS—CLASS OF 1904

NAME	RESIDENCE	ROOM
Edith Violet Aldrich	<i>Auburn</i>	33 Blackamore Ave., Auburn
Laura Frances Baker	<i>Providence</i>	168 Williams St.
Lena Belle Baker	<i>Providence</i>	168 Williams St.
Florence Butler Beitenman	<i>Baumstown, Pa.</i>	84 Comstock Ave.
Laura Brooks	<i>East Providence</i>	East Providence
Eliza Ethel Bruce	<i>Bath, Me.</i>	19 Champlin Place
Harriet Louise Campbell	<i>Centredale</i>	Centredale
Agnes Alice Cawley	<i>East Providence</i>	East Providence
Annie Louise Conley	<i>Woonsocket</i>	236 North Main St.
Flora Melville Cotton	<i>Providence</i>	16 Humboldt Ave.
Alice Marion Crosby	<i>Matteawan, N. Y.</i>	66 Benefit St.
Lottie May Devlin	<i>Pawtucket</i>	85 Beechwood Ave., Pawtucket
Annie Fisher	<i>Providence</i>	587 Academy Ave.
Anna Leah Fox	<i>Fall River, Mass.</i>	21 Wheaton St.
Hannah Heaton	<i>Brunswick, Me.</i>	66 Benefit St.
Linda May Lowell	<i>Providence</i>	167 Ohio Ave.
Theresa Rachel McKenna	<i>Providence</i>	39 Bainbridge Ave.
Nora Loretta Maguire	<i>Providence</i>	79 Andem St.
Annette Walker Milligan	<i>Saylesville</i>	Saylesville
Mary Ellen Oslin	<i>Providence</i>	241 Amherst St.
Sara De Veaux Packard	<i>Providence</i>	425 Angell St.
Vera Rector	<i>Pawtucket</i>	1 Brook St., Pawtucket
Inez Vernon Sayer	<i>Providence</i>	988 Smith St.
Marjorie Wadsworth Shaw	<i>Oak Lawn</i>	Oak Lawn
Marion Lydia Shorey	<i>Albion, Me.</i>	68 Lloyd Ave.
Carrie Etta Small	<i>Providence</i>	50 Montague St.
Eleanor Stark	<i>Providence</i>	41 Chapin Ave.
Mae Stenhouse	<i>Newport</i>	35 Francis St.
Elsie Marion Straffin	<i>Brockton, Mass.</i>	68 Lloyd Ave.
Sarah Ellen Taylor	<i>Methuen, Mass.</i>	119 Sherman St., Pawtucket
Edith Marion Tillinghast	<i>Providence</i>	129 Oxford St.
Georgia Louise Towle	<i>Providence</i>	47 Camp St.

JUNIORS—CLASS OF 1905

NAME	RESIDENCE	ROOM
Josephine Stedman Armstrong	<i>Worcester, Mass.</i>	66 Benefit St.
Mary Elizabeth Bannan	<i>Providence</i>	311 Prairie Ave.
Marion Hamilton Bonn	<i>Providence</i>	8 Spencer St.
Edith Anne Brown	<i>Taunton, Mass.</i>	66 Benefit St.
Isabel Marion Brownson	<i>Providence</i>	342 Plain St.
Bertha Augusta Buffinton	<i>Providence</i>	463 Broadway
Sarah Kempton Cady	<i>Providence</i>	382 Blackstone St.
Letitia Mabel Cahoon	<i>Providence</i>	92 Wesleyan Ave.
Frances Ross Cameron	<i>Providence</i>	487 Hope St.
Millie Dimond Church	<i>Bristol</i>	Bristol
Bertha Louise Clark	<i>Chester, Ct.</i>	184 Meeting St.
Clara Louise Cooke	<i>Providence</i>	18 Maple St.
Eliza Jennetta Delaney	<i>Providence</i>	359 Brook St.
Florence Ellsworth Doane	<i>Providence</i>	9 John St.
Olive Bowers Eddy	<i>Providence</i>	250 Lockwood St.
Mary Louise Gay	<i>Attleboro, Mass.</i>	Attleboro
Alida May Green	<i>Hornellsville, N. Y.</i>	85 Congdon St.
Bessie Maura Henehan	<i>Providence</i>	9 Harriet St.
Louisa Roberts Holt	<i>Pawtucket</i>	11 Hayward St., Pawtucket
Robertta Alice Horton	<i>Pawtucket</i>	265 Prospect St., Pawtucket
Lulu Broadbent Joslin	<i>Attleboro, Mass.</i>	Attleboro
Harriet Gertrude Lane	<i>Providence</i>	26 Irving Ave.
Marie Louise Laviolette	<i>Woonsocket</i>	125 Governor St.
Bessie Madeline Leahy	<i>Pawtucket</i>	50 Clay St., Pawtucket
Alice Joseph Macomber	<i>Attleboro</i>	Attleboro
Alice Howard Manchester	<i>Providence</i>	562 North Main St.
Susan Annie May	<i>Goulds</i>	32 Jenckes St.
Marion Midgley	<i>Providence</i>	177 Progress St.
Elizabeth Perry	<i>Apponaug</i>	184 Meeting St.
Jennie May Perry	<i>Pawtucket</i>	19 Kossuth St., Pawtucket
Ethel Tremain Robinson	<i>Providence</i>	27 Beacon Ave.
Sarah Gridley Ross	<i>Cortland, N. Y.</i>	47 Camp St.
Lulu Winifred Simpson	<i>Turtle Point, Pa.</i>	87 Benefit St.
Alice Whitall Tavor	<i>West Hartford, Ct.</i>	66 Benefit St.
Louise Whitecher	<i>Providence</i>	255 Potter Ave.

NAME	RESIDENCE	ROOM
Cora Horton Whittaker	<i>Seekonk, Mass.</i>	Seekonk
Inez Kelley Whittemore	<i>Providence</i>	87 Willow St.
Clara Virginia Whiting	<i>Providence</i>	86 Wendell St.

SOPHOMORES—CLASS OF 1906

NAME	RESIDENCE	ROOM
Bessie Lenore Adams	<i>River Point</i>	River Point
Helen Barrows Albro	<i>Newport</i>	125 Governor St.
Alice Appleton	<i>Providence</i>	209 Angell St.
Mabel Corinne Ashworth	<i>Auburn</i>	Auburn
Marion Chase Austin	<i>Niantic</i>	102 Cranston St.
Beatrice Thomson Banning	<i>Providence</i>	125 Governor St.
Edith Agnes Barr	<i>Worcester, Mass.</i>	53 Woodbine St.
Stella Hathaway Baylies	<i>Fall River, Mass.</i>	98 Cushing St.
Henrietta Celia Brazeau	<i>Pawtucket</i>	310 West Ave., Pawtucket
Mary Agnes Doyle Brennan	<i>Providence</i>	81 Hope St.
Cora Severy Burrill	<i>Pawtuxet Neck</i>	Pawtuxet Neck
Elizabeth Clark Butterworth	<i>Fall River, Mass.</i>	98 Cushing St.
Edith Elizabeth Chaffee	<i>East Providence</i>	38 Russell Ave.
Winifred Florence Chase	<i>Fall River, Mass.</i>	98 Cushing St.
Hope Davis	<i>Providence</i>	64 Keene St.
Mary Ida Delaney	<i>Providence</i>	359 Brook St.
Ursula Hope Devenish	<i>Providence</i>	90 Davis St.
Bessie Ballard Grammont	<i>Providence</i>	21 Arch St.
Linda Lawton Haight	<i>Warren</i>	Warren
Ida Frances Herrmann	<i>Bristol</i>	Bristol
Judith Barber Hopkins	<i>Putnam, Ct.</i>	66 Benefit St.
Helma Augusta Johnson	<i>Rumford</i>	Rumford
Florence May Leighton	<i>Laconia, N. H.</i>	113 East Manning St.
Annie Elizabeth McAlister	<i>Central Falls</i>	Central Falls
Emma Elizabeth McKenna	<i>Providence</i>	57 Cypress St.
Edith Arline Nichols	<i>Providence</i>	37 Somerset St.
Ethelwyn Chaffee Phillips	<i>Providence</i>	345 Potter Ave.
Elva Elizabeth Phillips	<i>So. Framingham, Mass.</i>	68 Lloyd Ave.,
Grace Redford	<i>Pawtucket</i>	65 Clyde St., Pawtucket

NAME	RESIDENCE	ROOM
Florence Carrie Reynolds	<i>Greenfield, N. H.</i>	98 Cushing St.
Lillian Hope Robinson	<i>Pawtucket</i>	339 Broadway, Pawtucket
Ida Lawrence Rollins	<i>Providence</i>	138 Sutton St.
Laura Richards Sherman	<i>Providence</i>	62 Vernon St.
Grace Mabel Sherwood	<i>Providence</i>	324 Laurel Hill Ave.
Grace Susan Stevens	<i>Williamstown, Mass.</i>	54 Willow St.
Alice Sundberg	<i>Rumford</i>	89 Bishop Ave., Rumford
Ethel Brown Thornton	<i>Providence</i>	164 Pond St.
Alice Carlotta Tillinghast	<i>Providence</i>	172 Prospect St.

FRESHMEN—CLASS OF 1907

NAME	RESIDENCE	ROOM
Mary Louise Adams	<i>Providence</i>	64 Pitman St.
Leah Brown Allen	<i>Providence</i>	76 Pitman St.
Harriet Louise Ash	<i>Providence</i>	70 Carrington Ave.
Rose Beatrice Bachrach	<i>Providence</i>	17 Smith St.
Helen Mellen Banning	<i>Walpole, N. H.</i>	66 Benefit St.
Anne McCurdy Bass	<i>Willimantic Ct.</i>	66 Benefit St.
Lizzie Alma Blackburn	<i>Fairhaven, Mass.</i>	70 Washington St., Central Falls
Alice Marie Blessing	<i>Providence</i>	232 Pearl St.
Winifred Sophia Bolles	<i>New Bedford, Mass.</i>	66 Benefit St.
Deborah Frances Brooks	<i>Ashton</i>	Ashton
Dorothea Brenton Burge	<i>Edgewood</i>	184 Albert Ave.
Mildred Allen Carnes	<i>Providence</i>	281 Williams St.
Martha Warren Case	<i>Providence</i>	52 Grove St.
Alleyne Clark	<i>Castleton, Vt.</i>	66 Benefit St.
Gertrude Mary Clark	<i>Providence</i>	43 East George St.
Elsie Judson Coon	<i>Kansas City, Mo.</i>	101 Wesleyan Ave.
Elizabeth Cranston	<i>Providence</i>	165 Prospect St.
Blanche May Crapo	<i>Taunton, Mass.</i>	32 Vernon St.
Elizabeth Robinson Crapon	<i>Providence</i>	41 Charles Field St.
Nellie Veronica Donovan	<i>Providence</i>	14 Sterry St.
Ella Tillinghast Gardiner	<i>Providence</i>	16 Franklin St.
Bessie Alice Gatie	<i>New Bedford, Mass.</i>	408 Cranston St.
Ida Marion Grimshaw	<i>New Bedford, Mass.</i>	9 Gerald St., Pawtucket
Bertha Ethel Hopkins	<i>Providence</i>	43 Harrison St.

NAME	RESIDENCE	ROOM
Harriet Lonvan Hoyle	<i>Providence</i>	108 Providence St.
Zerrie Fitz Randolph Huntsman	<i>Providence</i>	37 South Angell St.
Ella Jackson	<i>Ashton</i>	Ashton
Mabel Alton Jollie	<i>Valley Falls</i>	Valley Falls
Clara Alice Law	<i>Woonsocket</i>	Woonsocket
Marguerite May Levere	<i>Bristol</i>	Bristol
Rachel Gertrude McAuliffe	<i>Providence</i>	184 Elmgrove Ave.
Clara Louise McCord	<i>Providence</i>	80 Vinton St.
Kathrine Marion MacKenzie	<i>Pawtucket</i>	36 Waldo St.
Grace Edith Mahy	<i>Providence</i>	40 Fourth St.
Alice Rhodes Martin	<i>Warren</i>	Warren
Bertha Corinne Mathieu	<i>Central Falls</i>	37 Broad St.
Louise Baggott Morgan	<i>Providence</i>	184 Howell St.
Margaret Myrtle Pennycook	<i>Woonsocket</i>	66 Benefit St.
Bertha Elizabeth Piggott	<i>New Bedford, Mass.</i>	Kettle Point
Claribel Redford	<i>Pawtucket</i>	65 Clyde St., Pawtucket
Ethel Louise Robinson	<i>Providence</i>	214 Broadway
Ethel Ida Rowand	<i>East Providence</i>	67 James St.
Louise Amelia Schofield	<i>Providence</i>	40 Angell St.
Louise Schutz	<i>Edgewood</i>	146 Wheeler Ave.
Sarah Ida Shapiro	<i>Providence</i>	8 Jenckes St.
Blanche Luella Smith	<i>Providence</i>	42 Dexter St.
Eunice Clara Smith	<i>Pawtucket</i>	625 East Ave., Pawtucket
Marion Frances Smith	<i>Ashland, N. H.</i>	66 Benefit St.
Louise Hawthorne Sweet	<i>Providence</i>	102 Benefit St.
Ethel May Washburn	<i>Central Falls</i>	Central Falls
Grace Lippitt Whiting	<i>Providence</i>	136 Broadway
Mary Alice Whittlesey	<i>Rockville, Ct.</i>	1 Daniel St., Pawtucket
Alene Olney Williams	<i>Providence</i>	175 Lloyd Ave.
Lilian Arthur Winsor	<i>Providence</i>	132 Lowell Ave.

SPECIAL STUDENTS

NAME	RESIDENCE	ROOM
Dorothy Banning	<i>Walpole, N.H.</i>	66 Benefit St.
Lida May Bassett	<i>Providence</i>	90 Chapin Ave.
Florence Marion Beck	<i>Providence</i>	1017 Smith St.
Gertrude May Buffum	<i>Providence</i>	491 Brook St.

NAME	RESIDENCE	ROOM
Annie Louise Cocks	<i>Kansas City, Mo.</i>	66 Benefit St.
Ethel Congdon Colley	<i>Providence</i>	312 California Ave.
Alice Collins	<i>Providence</i>	118 Broad St.
Laura Elizabeth Cooke	<i>Providence</i>	18 Maple St.
Bertha Mabel Dean	<i>Providence</i>	31 Daboll St.
Eunice Walker Dexter	<i>E. Providence Centre</i>	E. Providence Centre
Cora Louise Drake	<i>Auburn</i>	Auburn
Eva Jordan Field	<i>Providence</i>	54 Wilson St.
Eva Fletcher	<i>Providence</i>	1420 Westminster St.
Lillie Etta Fraser	<i>Providence</i>	6 Hamlin St.
Jessy Benedict Gessner	<i>Providence</i>	86 Aborn St.
Marion Brooks Gould	<i>Providence</i>	45 Charles Field St.
Ruth Louise Handy	<i>Manville</i>	66 Benefit St.
Helen Hamilton Hatch	<i>Providence</i>	416 Brook St.
Ada Alana Johnson	<i>Providence</i>	24 Ringgold St.
Myra Alice Kimball	<i>Providence</i>	176 Smith St.
Edith Lawrence King	<i>Chelsea, Mass.</i>	66 Benefit St.
Mabel Mumford Lincoln	<i>Chelsea Mass.,</i>	39 Francis St.
Florence Addie Lucia McCausland	<i>East Providence</i>	852 Broadway
Ida Anna Morgan	<i>E. Providence</i>	2270 Pawtucket Ave., E. Providence
Lillian Nisbet	<i>Pawtucket</i>	115 Prospect St., Pawtucket
Georgie Smith Peck	<i>Providence</i>	48 Princeton Ave.
Emily Rogers	<i>Providence</i>	264 Bowen St.
Isabel Douglas Scott	<i>Providence</i>	435 Angell St.
Mary Scott	<i>Providence</i>	435 Angell St.
Ethel Sheldon	<i>Providence</i>	293 Friendship St.
Mary Beulah Sheldon	<i>Providence</i>	842 Plainfield St.
Georgianna Smith	<i>Providence</i>	109 Massachusetts Ave.
Margaret Proctor Wood	<i>Danvers, Mass.</i>	161 Bowen St.

SUMMARIES

SUMMARY OF THE WOMEN'S COLLEGE

Seniors.....	32
Juniors	38
Sophomores	38
Freshmen	54
Special Students	33
Total.....	<hr/> 195

GENERAL SUMMARY

Graduates . . .	86
Seniors . . .	113
Juniors . . .	129
Sophomores . . .	152
Freshmen . . .	200
Special Students . . .	60
Women's College . . .	195
Total . . .	<hr/> 935

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